

Pearson Edexcel Level 2 Diploma in Specialist Concrete Occupations (Construction)

Specification

NVQs/Competence-based qualifications

First registration January 2018



Edexcel, BTEC and LCCI qualifications

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Contents

1	Introducing Edexcel NVQs/Competence-based qualifications	1
	What are NVQs/Competence-based qualifications?	1
	Sizes of NVQs/Competence-based qualifications	1
2	Qualification summary and key information	3
3	Qualification purpose	5
	Qualification objectives	5
	Relationship with previous qualifications	5
	Progression opportunities	5
	Industry support and recognition	6
	Relationship with Occupational Standards	6
4	Qualification structure	7
	Pearson Edexcel Level 2 Diploma in Specialist Concrete Occupation (Construction)	s 7
5	Programme delivery	23
	Elements of good practice	23
	Learner recruitment, preparation and support	23
	Training and assessment delivery	24
	Employer engagement	24
6	Centre resource requirements	25
7	Access and recruitment	26
	Prior knowledge, skills and understanding	26
	Access to qualifications for learners with disabilities or specific needs	26
8	Assessment	27
	Language of assessment	27
	Internal assessment	27
	Assessment requirements	28
	Types of evidence	29
	Assessment of knowledge and understanding	29
	Appeals	30

	Dealing w	vith malpractice	30
	Reasonab	ole adjustments to assessment	32
	Special co	onsideration	33
9	Centre re	recognition and approval cognition	34 34
	Approvals	s agreement	34
10	Quality	assurance of centres	35
11	Unit for	rmat	36
	Unit num	ber	36
	Unit title		36
	Level		36
	Unit type		36
	Credit val	lue	36
	Guided Le	earning Hours (GLH)	36
	Unit sumi	mary	36
	Unit asse	ssment requirements	36
	Learning	outcomes	37
	Assessme	ent criteria	37
	Unit 1:	Installing, Maintaining and Removing Work Area Protection and Safety Equipment in the Workplace	38
	Unit 2:	Conforming to General Health, Safety and Welfare in the Workplace	47
	Unit 3:	Conforming to Productive Working Practices in the Workplace	52
	Unit 4:	Moving, Handling and Storing Resources in the Workplace	56
	Unit 5:	Surveying Degraded Concrete Structures in the Workplace	63
	Unit 6:	Preparing Substrate and Applying Materials to Repair Concrete in the Workplace	72
	Unit 7:	Preparing Substrate for Sprayed Concrete in the Workplace	81
	Unit 8:	Applying Sprayed Concrete in the Workplace	90
	Unit 9:	Preparing Backgrounds Prior to Laying Decorative Concrete in the Workplace	99

Unit 10:	Placing Concrete and Producing a Decorative Finish in the Workplace	108
Unit 11:	Installing Street Ironwork (Metal, Plastic, Concrete and Composite Materials) in the Workplace	117
Unit 12:	Setting out Secondary Dimensional Work Control in the Workplace	125
Unit 13:	Reshaping Using Hand Sawing Techniques in the Workplace	133
Unit 14:	Forming Drill Holes or Core in the Structural Fabric (Diamond Core Bits) in the Workplace	142
Unit 15:	Forming Saw Cuts in Structural Fabric Material in the Workplace	151
Unit 16:	Preparing and Inspecting Substrates Prior to Laying Screed Floors in the Workplace	160
Unit 17:	Laying Screed Floors in the Workplace	169
Unit 18:	Laying Resin Floors in the Workplace	177
Unit 19:	Repairing, Preparing and Inspecting Substrates Prior to Laying Resin Floors in the Workplace	186
Unit 20:	Preparing Areas for Concrete Flooring in the Workplace	195
Unit 21:	Placing in situ concrete flooring in the workplace	204
Unit 22:	Applying Surface Finishes to Concrete Flooring in the Workplace	213
Unit 23:	Preparing and Operating Ride-on Topping Spreaders to Distribute Materials in the Workplace	221
Unit 24:	Preparing and Operating Ride-on Laser Screeders to Lev Concrete in the Workplace	el 230
Unit 25:	Operating Plant or Machinery to Prepare, Profile and Finish Substrates for Specified Materials in the Workplace	238
Unit 26:	Applying Coatings as Structure Protection in the Workplace	247
Unit 27:	Carrying Out Concrete Bursting Operations in the Workplace	256
Unit 28:	Carrying Out Concrete Crushing and Breaking Operations in the Workplace	265
Unit 29:	Carrying Out Wire Sawing in the Workplace	274
Unit 30:	Erecting and Dismantling Access/Working Platforms in the Workplace	282
Unit 31:	Applying Sealants Mechanically in the Workplace	289
Unit 32:	Jacking-up acoustic floating floors in the workplace	296

12	Further information and useful publications	304
13	Professional development and training	305
14	Contact us	306
	nexe A: Consolidated Assessment Strategy for nstruction and the Built Environment	307
Apı	pendix 1	314

1 Introducing Edexcel NVQs/Competencebased qualifications

What are NVQs/Competence-based qualifications?

National Vocational Qualifications (NVQs)/Competence-based qualifications are work-based qualifications that give learners the opportunity to develop and demonstrate their competence in the area of work or job role to which the qualification relates.

NVQs/Competence-based qualifications are based on recognised occupational standards for the appropriate sector. Occupational standards define what employees, or potential employees, must be able to do and know, and how well they should undertake work tasks and work roles. These standards are written in broad terms to enable employers and providers to apply them to a wide range of related occupational areas.

NVQs/Competence-based qualifications are outcomes-based with no fixed learning programme, therefore allowing flexible delivery to meet the individual learner's needs. At Level 2 and above, these qualifications are recognised as approved training and development courses for employees that have been in the workplace for some time or as a way of inducting, training and developing new entrants into the workplace. Qualifications at Level 1 can be used in Traineeships, which enables progression to entry level employment or to apprenticeship programmes.

Learners will work towards their qualification in the workplace or in settings that replicate the working environment as specified in the assessment requirements. Colleges, training centres and/or employers can offer these qualifications as long as they have access to appropriate physical and human resources and have the necessary quality assurance systems in place.

Sizes of NVQs/Competence-based qualifications

For all regulated qualifications, we specify a total number of hours that learners are expected to undertake in order to complete and show achievement for the qualification – this is the Total Qualification Time (TQT). The TQT value indicates the size of a qualification.

Within the TQT, we identify the number of Guided Learning Hours (GLH) that a centre delivering the qualification needs to provide. Guided learning means activities that directly or immediately involve tutors and assessors in teaching, supervising, and invigilating learners, for example lectures, tutorials, online instruction and supervised study.

As well as guided learning, there may be other required learning that is directed by tutors or assessors. This includes, for example, private study, preparation for assessment and undertaking assessment when not under supervision, such as preparatory reading, revision and independent research.

As well as TQT and GLH, qualifications can also have a credit value – equal to one tenth of TQT, rounded to the nearest whole number.

TQT and credit values are assigned after consultation with employers and training providers delivering the qualifications.

NVQs/Competence-based qualifications are generally available in the following sizes:

- Award a qualification with a TQT value of 120 or less (equivalent to a range of 1–12 credits)
- Certificate a qualification with a TQT value in the range of 121–369 (equivalent to a range of 13–36 credits)
- Diploma a qualification with a TQT value of 370 or more (equivalent to 37 credits and above).

2 Qualification summary and key information

Qualification title	Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction)
Qualification Number (QN)	603/2840/X
Regulation start date	20/12/2017
Operational start date	01/01/2018
Approved age ranges	16-18
	19+
	Please note that sector-specific requirements or regulations may prevent learners of a particular age from embarking on this qualification. Please refer to the assessment requirements in <i>Section 8 Assessment</i> .
Total Qualification Time (TQT)	390
Guided Learning Hours (GLH)	152
Assessment	Portfolio of evidence (internal assessment).
Grading information	The qualification and units are graded pass/fail.

Qualification title	Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction)
Entry requirements	No prior knowledge, understanding, skills or qualifications are required before learners register for this qualification. However, centres must follow the Pearson Access and Recruitment policy (see Section 7 Access and recruitment).
Funding	Qualifications eligible and funded for post-16-year-olds can be found on the funding hub. The Skills Funding Agency also publishes a funding catalogue that lists the qualifications available for 19+ funding.

Centres will need to use the Qualification Number (QN) when they seek public funding for their learners. The qualification title, unit titles and QN will appear on each learner's final certificate. Centres should tell learners this when recruiting them and registering them with Pearson. There is more information about certification in our *UK Information Manual*, available on our website, qualifications.pearson.com

3 Qualification purpose

Qualification objectives

The Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) is for learners who work in, or who want to work in the construction sector.

It gives learners the opportunity to:

- develop and demonstrate competence as a specialist concreter, working with concrete across one or more areas, including concrete repair, sprayed concrete, decorative concrete, concrete drilling, concrete sawing, in situ flooring and substrate preparation and profiling.
- develop technical skills and knowledge and understanding related to the specified job roles in construction.
- have existing skills recognised
- achieve a nationally-recognised Level 2 qualification
- develop their own personal growth and engagement in learning.

Relationship with previous qualifications

This qualification is a direct replacement for the Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) (QCF), which has expired.

Progression opportunities

Learners who achieve the Pearson Edexcel Level 2 NVQ Diploma can progress to a job role as a specialist concreter in their chosen area, such as concrete repair, sprayed concrete, decorative concrete, concrete drilling, concrete sawing, in situ flooring or substrate preparation and profiling.

This qualification has pathways in order to group together occupational skills and allowing learners to specialise in a discipline. Pathways help learners to prove competence to employers in their specialist discipline. The pathways differentiate between the job roles that the learner is mainly responsible for, as indicated in their titles.

It is expected that most learners will already be working as construction operatives in one of the above specialist pathways for concrete occupations. As part of an apprenticeship, it will help to provide recognition and career progression for new entrants, and can lead to employment for those not employed.

Learners may also progress to supervisory qualifications, such as the Pearson Edexcel Level 3 NVQ diploma in Occupational Work Supervision (Construction), or the Pearson Edexcel Level 4 NVQ Diploma in Site Supervision (Construction), if their job role requires greater responsibility.

Industry support and recognition

This qualification is supported by CITB, the Sector Skills Council for construction and the built environment.

Relationship with Occupational Standards

This qualification is based on the National Occupational Standards (NOS) in Specialist Concrete Occupations, which were set and designed by CITB, the Sector Skills Council for the sector.

4 Qualification structure

Pearson Edexcel Level 2 Diploma in Specialist Concrete Occupations (Construction)

The learner will need to meet the requirements outlined in the table below before the qualification can be awarded.

Minimum number of units that must be achieved from the Mandatory Group	4
Minimum number of units that must be achieved at Level 2 or above	3

Unit number	Group A - Mandatory units for all pathways	Level	Credit	Guided learning hours
1	Installing, Maintaining and Removing Work Area Protection and Safety Equipment in the Workplace	2	10	55
2	Conforming to General Health, Safety and Welfare in the Workplace	1	2	7
3	Conforming to Productive Working Practices in the Workplace	2	3	10
4	Moving, Handling and Storing Resources in the Workplace	2	5	17

Pathway 1: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Concrete Repair)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	500

Unit number	Mandatory units	Level	Guided learning hours
5	Surveying Degraded Concrete Structures in the Workplace	2	53
6	Preparing Substrate and Applying Materials to Repair Concrete in the Workplace	2	47
Unit number	Additional unit (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Guided learning hours
26	Applying Coatings as Structure Protection in the Workplace	2	43

Pathway 2: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Sprayed Concrete)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A		
Total qualification time (TQT) for this pathway		

Unit number	Mandatory units	Level	Guided learning hours
7	Preparing Substrate for Sprayed Concrete in the Workplace	2	40
8	Applying Sprayed Concrete in the Workplace	2	53

Pathway 3: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Decorative Concrete)

Minimum number of Units that must be achieved for this pathway, including the mandatory units from Group A	8
Total qualification time (TQT) for this pathway	660

Unit number	Mandatory units	Level	Guided learning hours
9	Preparing Backgrounds Prior to Laying Decorative Concrete in the Workplace	2	40
10	Placing Concrete and Producing a Decorative Finish in the Workplace	2	60
11	Installing Street Ironwork (Metal, Plastic, Concrete and Composite Materials) in the Workplace	2	50
12	Setting Out Secondary Dimensional Work Control in the Workplace	2	23

Pathway 4: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Concrete Drilling)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	590

Unit number	Mandatory units	Level	Credit	Guided learning hours
13	Reshaping Using Hand Sawing Techniques in the Workplace	2	21	70
14	Forming Drill Holes or Core in the Structural Fabric (Diamond Core Bits) in the Workplace	2	18	60
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
27	Carrying Out Concrete Bursting Operations in the Workplace	2	16	53
28	Carrying Out Concrete Crushing and Breaking Operations in the Workplace	2	14	47
29	Carrying Out Wire Sawing in the Workplace	2	16	53
30	Erecting and Dismantling Access/Working Platforms in the Workplace	2	8	27
31	Applying Sealants Mechanically in the Workplace	3	12	40

Pathway 5: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Concrete Sawing)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	600

Unit number	Mandatory units	Level	Credit	Guided learning hours
13	Reshaping Using Hand Sawing Techniques in the Workplace	2	21	70
15	Forming Saw Cuts in Structural Fabric Material in the Workplace	2	19	63
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
27	Carrying Out Concrete Bursting Operations in the Workplace	2	16	53
28	Carrying Out Concrete Crushing and Breaking Operations in the Workplace	2	14	47
29	Carrying Out Wire Sawing in the Workplace	2	16	53
30	Erecting and Dismantling Access/Working Platforms in the Workplace	2	8	27
31	Applying Sealants Mechanically in the Workplace	3	12	40

Pathway 6: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Concrete Drilling and Sawing)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	7
Total qualification time (TQT) for this pathway	780

Unit number	Mandatory units	Level	Credit	Guided learning hours
13	Reshaping Using Hand Sawing Techniques in the Workplace	2	21	70
14	Forming Drill Holes or Core in the Structural Fabric (Diamond Core Bits) in the Workplace	2	18	60
15	Forming Saw Cuts in Structural Fabric Material in the Workplace	2	19	63
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
27	Carrying Out Concrete Bursting Operations in the Workplace	2	16	53
28	Carrying Out Concrete Crushing and Breaking Operations in the Workplace	2	14	47
29	Carrying Out Wire Sawing in the Workplace	2	16	53
30	Erecting and Dismantling Access/Working Platforms in the Workplace	2	8	27
31	Applying Sealants Mechanically in the Workplace	3	12	40

Pathway 7: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (In Situ Flooring – Screed)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	510

Unit number	Mandatory units	Level	Credit	Guided learning hours
16	Preparing and Inspecting Substrates Prior to Laying Screed Floors in the Workplace	2	13	43
17	Laying Screed Floors in the Workplace	2	18	60
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
15	Forming Saw Cuts in Structural Fabric Material in the Workplace	2	19	63

Pathway 8: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (In Situ Flooring – Resin)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	490

Unit number	Mandatory units	Level	Credit	Guided learning hours
18	Laying Resin Floors in the Workplace	2	16	53
19	Repairing, Preparing and Inspecting Substrates Prior to Laying Resin Floors in the Workplace	2	13	43
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours

Pathway 9: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (In Situ Flooring – Concrete Layer)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	490

Unit number	Mandatory units	Level	Credit	Guided learning hours
20	Preparing Areas for Concrete Flooring in the Workplace	2	15	50
21	Placing In Situ Concrete Flooring in the Workplace	2	14	47
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
15	Forming Saw Cuts in Structural Fabric Material in the Workplace	2	19	63

Pathway 10: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (In Situ Flooring – Concrete Finisher)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	490

Unit number	Mandatory units	Level	Credit	Guided learning hours
20	Preparing Areas for Concrete Flooring in the Workplace	2	15	50
22	Applying Surface Finishes to Concrete Flooring in the Workplace	2	14	47
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours

Pathway 11: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (In Situ Flooring – Concrete Plant Operator)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	500

Unit number	Optional units Learners must complete one unit from this group	Level	Credit	Guided learning hours
23	Preparing and Operating Ride-on Topping Spreaders to Distribute Materials in the Workplace	2	30	100
24	Preparing and Operating Ride-on Laser Screeders to Level Concrete in the Workplace	2	40	133
Unit number	Additional units (non-compulsory) Credits from this group will not count towards the minimum credit value required for the qualification	Level	Credit	Guided learning hours
15	Forming Saw Cuts in Structural Fabric Material in the Workplace	2	19	63

Pathway 12: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Substrate Preparation and Profiling)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	5
Total qualification time (TQT) for this pathway	390

Unit number	Mandatory unit	Level	Credit	Guided learning hours
25	Operating Plant or Machinery to Prepare, Profile and Finish Substrates for Specified Materials in the Workplace	2	19	63

Pathway 13: Pearson Edexcel Level 2 NVQ Diploma in Specialist Concrete Occupations (Concrete Floating Floor Installation)

Minimum number of units that must be achieved for this pathway, including the mandatory units from Group A	6
Total qualification time (TQT) for this pathway	460

Unit number	Mandatory unit	Level	Guided learning hours
20	Preparing Areas for Concrete Flooring in the Workplace	2	50
32	Jacking-up Acoustic Floating Floors in the Workplace	2	20

Centres should be aware that within the Level 2 qualification in this specification, learners may be required to meet the demands of unit(s) at Level 3. Centres are advised to consider the support, guidance and opportunities they give to learners to meet the demands of the higher-level unit(s) during delivery and assessment of the qualification.

Unit endorsements

Unit	CITB unit ref	Unit title	Endorsement
1	360	Installing, Maintaining and Removing Work Area Protection	One of the following endorsements required (i.e. own area of work):
		and Safety Equipment in the Workplace	Sprayed concrete
		workplace	Concrete repair
			Decorative concrete
			Concrete drilling and sawing
			In situ flooring
			Substrate preparation and profiling.
5	57	Surveying Degraded Concrete Structures in the Workplace	Two of the following endorsements required:
			Visual
			Mechanical means
			Chemical
			Electro chemical.
6	58	Preparing Substrate and Applying Materials to Repair Concrete in the	Five of the following endorsements required:
		Workplace	Prepare substrates and reinforcement
			Apply primers, bonding agents and repair compounds
			Replace steel reinforcement
			Erect and dismantle formwork
			Protect and cure
			Record and report.
8	VR124	Applying Sprayed Concrete in the Workplace	Five of the following endorsements required:
			Pre-wet surfaces for spraying
			Spray concrete to profile
			Produce samples for testing
			Cure and protect concrete
			Record and report on test
			Record and report on spraying
			Operate spraying nozzle
			Operate pump
			Clean pump
			Clear lines.

Unit	CITB unit ref	Unit title	Endorsement
10	146	Placing Concrete and Producing a Decorative Finish in the Workplace	One of the following endorsements required:
			Imprinted
			Exposed aggregate.
12	401	Setting Out Secondary Dimensional Work Control in the Workplace	The following endorsement required (i.e. own area of work):
			Decorative concrete.
13	220	Reshaping Using Hand Sawing	The following endorsement required:
		Techniques in the Workplace	Angle Grinder
			Plus one of the following endorsements required:
			Power saw
			Ring saw
			Chasing machine
			Chainsaw
			Plus form saw cuts in at least one from
			Concrete
			Masonry
			Stone
			Asphalt.
14	221	Forming Drill Holes or Core in the Structural Fabric (Diamond Core	Two of the following endorsements required:
		Bits) in the Workplace	Hand held diamond core or drill
			Static drill rig diamond core
			Trailer rig diamond core
			Percussive drill.
15	222	Forming Saw Cuts in Structural Fabric Material in the Workplace	One of the following endorsements required:
			Push along floor saw
			Self-propelled floor saw
			Diamond-bladed track saw.

Unit	CITB unit ref	Unit title	Endorsement
16	313	Preparing and Inspecting Substrates Prior to Laying Screed Floors in the Workplace	Three of the following endorsements required:
			Cementitious substrates
			Insulated areas
			Membranes
			Areas with heating systems
			Ducted areas.
17	314	Laying Screed Floors in the Workplace	One of the following endorsements required:
			Cementitious screeds
			Flowable screeds.
18	315	Laying Resin Floors in the Workplace	One of the following endorsements required:
			Resin coatings: plus two endorsements from floor seals, floor coatings or high build floor coatings
			Resin self-smoothing: plus two endorsements from multi-layer flooring, flow applied flooring or heavy duty flowable flooring
			Resin screeds.
20	316	Preparing Areas for Concrete Flooring in the Workplace	Three of the following endorsements required:
			Substrate preparation
			Timber formwork erection
			Proprietary formwork erection
			Reinforcement installation
			Membranes installation.
21	317	Placement of In Situ Concrete Flooring in the Workplace	Three of the following endorsements required:
			Chute
			Elephants trunk
			Skip
			• Pump
			Mono rail
			Manual.

Unit	CITB unit ref	Unit title	Endorsement
22	318	Applying Surface Finishes to Concrete Flooring in the Workplace	Three of the following endorsements required:
			Tamped
			Brushed
			Hand-float
			Pedestrian power float
			Ride-on power float.
25	359	Operating Plant or Machinery to Prepare, Profile and Finish Substrates for Specified Materials in the Workplace	Four of the following endorsements required:
			Grinder
			Planing machine
			Sander
			Polisher
			Scabbler
			Tile stripper
			Captive/enclosed shotblast machine
			Vacuum machine
			Filtration systems.
28	224	Carrying Out Concrete Crushing and Breaking Operations in the Workplace	One of the following endorsements required:
			Portable hand crusher
			Remote/radio control crusher and breaker
			Umbilical cord control crusher and breaker.
30	250	Erecting and Dismantling Access/Working Platforms in the Workplace	The following endorsement required (i.e. own area of work):
			Concrete drilling and sawing
			Plus two of the following endorsements required:
			Ladders/crawler boards
			Step ladders/platform steps
			Proprietary towers
			Trestle platforms
			Mobile scaffold towers
			Proprietary staging/podiums.

Unit	CITB unit ref	Unit title	Endorsement
32	788	Jacking-up Acoustic Floating Floors in the Workplace	One of the following endorsements required:
			Rubber systems
			Spring systems.

5 Programme delivery

Centres are free to offer these qualifications using any mode of delivery (for example full-time, part-time, evening only, distance learning) that meets learners' needs. Learners must be in employment or working with a training provider on a programme so that they can develop and demonstrate the occupational competence required.

Whichever mode of delivery is used, centres must make sure that learners have access to specified resources and to the sector specialists delivering and assessing the units. Centres must adhere to the Pearson policies that apply to the different modes of delivery. Our policy on *Collaborative arrangements for the delivery of vocational qualifications* is available on our website.

There are various approaches to delivering a successful competence-based qualification. The section below outlines elements of good practice that centres can adopt in relation to learner recruitment, preparation and support, training and assessment delivery, and employer engagement.

Elements of good practice

Learner recruitment, preparation and support

Good practice in relation to learner recruitment, preparation and support includes:

- providing initial advice and guidance, including work tasters, to potential learners to give them an insight into the relevant industry and the learning programme
- using a range of appropriate and rigorous selection methods to ensure that learners are matched to the programme best suited to their needs
- carrying out a thorough induction for learners to ensure that they completely
 understand the programme and what is expected of them. The induction should
 include, for example, the requirements of the programme, an initial assessment
 of current competency levels, assessment of individual learning styles,
 identification of training needs, an individual learning plan, details of training
 delivery and the assessment process. It is good practice to involve employers in
 the induction process. This helps them to understand what will be taking place
 during the programme and enables them to start building a relationship with the
 centre to support the effective delivery of the programme
- keeping in regular contact with the learner to keep them engaged and motivated, and ensuring that there are open lines of communication between the learner, the assessor, the employer and teaching staff.

Training and assessment delivery

Good practice in relation to training and assessment delivery includes:

- offering flexible delivery and assessment to meet the needs of the employer and learner through the use of a range of approaches, for example virtual learning environments (VLEs), online lectures, video, printable online resources, virtual visits, webcams for distance training, e-portfolios
- planning opportunities for the development and practising of skills on the job.
 On-the-job training presents an excellent opportunity to develop the learner's
 routine expertise, resourcefulness, craftspersonship and business-like attitude.
 It is, therefore, important that there is intentional structuring of practice and
 guidance to supplement the learning and development provided through
 engagement in everyday work activities. Learners need to have structured time
 to learn and practise their skills separate from their everyday work activities.
 Teaching and learning methods, such as coaching, mentoring, shadowing,
 reflective practice, collaboration and consultation, could be used in this
 structured on-the-job learning
- developing an holistic approach to assessment by matching evidence to different assessment criteria, learning outcomes and units as appropriate, thereby reducing the assessment burden on learners and assessors. It is good practice to draw up an assessment plan that aligns the units with the learning process and the acquisition of knowledge and skills, and which indicates how and when the units will be assessed
- discussing and agreeing with the learner and employer suitable times, dates and work areas where assessment will take place. Learners and employers should be given regular and relevant feedback on performance and progress.

Employer engagement

Good practice in relation to employer engagement includes:

- communicating with employers at the start of the programme to understand their business context and requirements so that the programme can be tailored to meet their needs
- working with employers to ensure that learners are allocated a mentor in the workplace to assist them in the day-to-day working environment and to act as a contact for the assessor/tutor
- helping employers to better understand their role in the delivery of the programme. It is important that employers understand that sufficient and relevant work must be given to learners in order to provide a culture of learning and to ensure that they are given every opportunity to participate in aspects of continuous professional development (CPD).

6 Centre resource requirements

As part of the approval process, centres must make sure that the resource requirements below are in place before offering the qualification.

- Centres must have the appropriate physical resources to support delivery and assessment of the qualification. For example, a workplace in line with industry standards, or a Realistic Working Environment (RWE), where permitted, as specified in the assessment strategy for the sector, equipment, IT, learning materials, teaching rooms.
- Where RWE is permitted, it must offer the same conditions as the normal, day-to-day working environment, with a similar range of demands, pressures and requirements for cost-effective working.
- Centres must meet any specific human and physical resource requirements outlined in the assessment strategy in *Annexe A*. Staff assessing learners must meet the occupational competence requirements within the overarching assessment strategy for the sector.
- There must be systems in place to ensure continuing professional development for staff delivering the qualification.
- Centres must have appropriate health and safety policies, procedures and practices in place for the delivery and assessment of the qualification.
- Centres must have in place robust internal verification systems and procedures
 to ensure the quality and authenticity of learners' work as well as the accuracy
 and consistency of assessment decisions between assessors operating at the
 centre. For information on the requirements for implementing assessment
 processes in centres, please refer to the NVQ Quality Assurance Centre
 Handbook and the Pearson Edexcel NVQs, SVQs and competence-based
 qualifications Delivery Requirements and Quality Assurance Guidance on our
 website.
- Centres must deliver the qualification in accordance with current equality legislation. For further details on Pearson's commitment to the Equality Act 2010, please see Section 7 Access and recruitment. For full details on the Equality Act 2010, visit www.legislation.gov.uk

7 Access and recruitment

Our policy on access to our qualifications is that:

- they should be available to everyone who is capable of reaching the required standards
- they should be free from barriers that restrict access and progression
- there should be equal opportunities for all wishing to access the qualifications.

Centres must ensure that their learner recruitment process is conducted with integrity. This includes ensuring that applicants have appropriate information and advice about the qualification to ensure that it will meet their needs.

Centres should review applicants' prior qualifications and/or experience, considering whether this profile shows that they have the potential to achieve the qualification.

Prior knowledge, skills and understanding

No prior knowledge, understanding, skills or qualifications are required for learners to register for this qualification.

Access to qualifications for learners with disabilities or specific needs

Equality and fairness are central to our work. Pearson's Equality Policy requires all learners to have equal opportunity to access our qualifications and assessments and that our qualifications are awarded in a way that is fair to every learner.

We are committed to making sure that:

- learners with a protected characteristic (as defined by the Equality Act 2010) are not, when they are undertaking one of our qualifications, disadvantaged in comparison to learners who do not share that characteristic
- all learners achieve the recognition they deserve from undertaking a qualification and that this achievement can be compared fairly to the achievement of their peers.

For learners with disabilities and specific needs, the assessment of their potential to achieve the qualification must identify, where appropriate, the support that will be made available to them during delivery and assessment of the qualification. Please see the information regarding reasonable adjustments and special consideration in *Section 8 Assessment*.

8 Assessment

To achieve a pass for this qualification, the learner must achieve all the units required in the stated qualification structure.

Language of assessment

Assessments for the units in this qualification are in English only.

A learner taking the qualification may be assessed in British or Irish Sign Language where it is permitted for the purpose of reasonable adjustment.

Further information on access arrangements can be found in the Joint Council for Qualifications (JCQ) document *Adjustments for candidates with disabilities and learning difficulties, Access Arrangements, Reasonable Adjustments and Special Consideration, General and Vocational qualifications*. The document is available on our website.

Internal assessment

The units in this qualification are assessed through an internally and externally quality assured Portfolio of Evidence made up of evidence gathered during the course of the learner's work.

Each unit has specified learning outcomes and assessment criteria. To pass each unit the learner must:

- achieve all the specified learning outcomes
- satisfy all the assessment criteria by providing sufficient and valid evidence for each criterion
- prove that the evidence is their own.

The learner must have an assessment record that identifies the assessment criteria that have been met. The assessment record should be cross-referenced to the evidence provided. The assessment record should include details of the type of evidence and the date of assessment. Suitable centre documentation should be used to form an assessment record.

It is important that the evidence provided to meet the assessment criteria for the unit and learning outcomes is:

Valid relevant to the standards for which competence is claimed

Authentic produced by the learner

Current sufficiently recent to create confidence that the same skill,

understanding or knowledge persist at the time of the claim

Reliable indicates that the learner can consistently perform at this level

Sufficient fully meets the requirements of the standards.

Learners can provide evidence of occupational competence from:

- current practice where evidence is generated from a current job role
- a **programme of development** where evidence comes from assessment opportunities built into a learning programme. The evidence provided must meet the assessment requirements for the qualification
- the Recognition of Prior Learning (RPL) where a learner can demonstrate that they can meet a unit's assessment criteria through knowledge, understanding or skills they already possess without undertaking a course of development. They must submit sufficient, reliable, authentic and valid evidence for assessment. Evidence submitted that is based on RPL should give the centre confidence that the same level of skill, understanding and knowledge exists at the time of claim as existed at the time the evidence was produced. RPL is acceptable for accrediting a unit, several units, or a whole qualification.

Further guidance is available in our policy document *Recognition of Prior Learning Policy and Process*, available on our website.

• a combination of these.

Assessment requirements

The assessment strategy for the qualification is included in *Annexe A*. It sets out the overarching assessment principles and the framework for assessing the units to ensure that the qualification remainS valid and reliable. It has been developed by ConstructionSkills in partnership with employers, training providers, awarding organisations and the regulatory authorities.

Types of evidence

To achieve a unit, the learner must gather evidence that shows that they have met the required standard specified in the assessment criteria, Pearson's quality assurance arrangements (please see *Section 10 Quality assurance of centres*) and the requirements of the assessment strategy given in *Annexe A*.

In line with the assessment strategy, evidence for internally-assessed units can take a variety of forms as indicated below:

- direct observation of the learner's performance by their assessor (O)
- outcomes from oral or written questioning (Q&A)
- products of the learner's work (P)
- personal statements and/or reflective accounts (RA)
- professional discussion (PD)
- authentic statements/witness testimony (WT)
- expert witness testimony (EWT)
- evidence of Recognition of Prior Learning (RPL).

Learners can use the abbreviations in their portfolios for cross-referencing purposes.

Learners can also use one piece of evidence to prove their knowledge, skills and understanding across different assessment criteria and/or across different units. It is not necessary for learners to have each assessment criterion assessed separately. They should be encouraged to reference evidence to the relevant assessment criteria. However, the evidence provided for each unit must clearly reference the unit being assessed. Evidence must be available to the Assessor, the Internal Verifier and the Pearson Standards Verifier.

Any specific evidence requirements for a unit are given in the *Assessment* section of the unit.

Further guidance on the requirements for centre quality assurance and internal verification processes is available on our website. Please see *Section 12 Further information and useful publications* for details.

Assessment of knowledge and understanding

Knowledge and understanding are key components of competent performance, but it is unlikely that performance evidence alone will provide sufficient evidence for knowledge-based learning outcomes and assessment criteria. Where the learner's knowledge and understanding is not apparent from performance evidence, it must be assessed through other valid methods and be supported by suitable evidence. The evidence provided to meet these learning outcomes and assessment criteria must be in line with ConstructionSkills assessment strategy. Any specific assessment requirements are stated in the *Unit assessment requirements* section of each unit in *Section 11 Unit format*.

Appeals

Centres must have a policy for dealing with appeals from learners. Appeals may relate to incorrect assessment decisions or unfairly conducted assessment. The first step in such a policy is a consideration of the evidence by a Lead Internal Verifier or other member of the programme team. The assessment plan should allow time for potential appeals after learners have been given assessment decisions.

Centres must document all learners' appeals and their resolutions. Further information on the appeals process can be found in our *Enquiries and Appeals about Pearson vocational qualifications policy*, available on our website.

Dealing with malpractice

Malpractice means acts that undermine the integrity and validity of assessment, the certification of qualifications and/or may damage the authority of those responsible for delivering the assessment and certification.

Pearson does not tolerate actions (or attempted actions) of malpractice by learners, centre staff or centres in connection with Pearson qualifications. Pearson may impose penalties and/or sanctions on learners, centre staff or centres where incidents (or attempted incidents) of malpractice have been proven.

Malpractice may arise or be suspected in relation to any unit or type of assessment within the qualification. For further details on malpractice and advice on preventing malpractice by learners please see *Pearson's Centre Guidance: Dealing with Malpractice*, available on our website.

Internal assessment

Centres are required to take steps to prevent malpractice and to investigate instances of suspected malpractice. Learners must be given information that explains what malpractice is for internal assessment and how suspected incidents will be dealt with by the centre. The *Centre Guidance: Dealing with Mal*practice document gives full information on the actions we expect you to take.

Pearson may conduct investigations if we believe that a centre is failing to conduct internal assessment according to our policies. The above document gives more information and examples, and details the penalties and sanctions that may be imposed.

In the interests of learners and centre staff, centres need to respond effectively and openly to all requests relating to an investigation into an incident of suspected malpractice.

Learner malpractice

The head of centre is required to report incidents of suspected learner malpractice that occur during Pearson examinations. We ask centres to complete JCQ Form M1 (www.jcq.org.uk/malpractice) and email it with any accompanying documents (signed statements from the learner, invigilator, copies of evidence, etc.) to the Investigations Team at pqsmalpractice@pearson.com. The responsibility for determining appropriate sanctions or penalties to be imposed on learners lies with Pearson.

Learners must be informed at the earliest opportunity of the specific allegation and the centre's malpractice policy, including the right of appeal. Learners found guilty of malpractice may be disqualified from the qualification for which they have been entered with Pearson.

Teacher/centre malpractice

The head of centre is required to inform Pearson's Investigations Team of any incident of suspected malpractice by centre staff, before any investigation is undertaken. The head of centre is requested to inform the Investigations Team by submitting a JCQ M2(a) form (downloadable from www.jcq.org.uk/malpractice) with supporting documentation to pqsmalpractice@pearson.com. Where Pearson receives allegations of malpractice from other sources (for example Pearson staff, anonymous informants), the Investigations Team will conduct the investigation directly or may ask the head of centre to assist.

Incidents of maladministration (accidental errors in the delivery of Pearson qualifications that may affect the assessment of learners) should also be reported to the Investigations Team using the same method.

Heads of centres/principals/chief executive officers or their nominees are required to inform learners and centre staff suspected of malpractice of their responsibilities and rights, please see 6.15 of JCQ Suspected Malpractice in Examinations and Assessments Policies and Procedures.

Pearson reserves the right in cases of suspected malpractice to withhold the issuing of results/certificates while an investigation is in progress. Depending on the outcome of the investigation, results and/or certificates may not be released or they may be withheld.

We reserve the right to withhold certification when undertaking investigations, audits and quality assurances processes. You will be notified within a reasonable period of time if this occurs.

Sanctions and appeals

Where malpractice is proven, we may impose sanctions or penalties.

Where learner malpractice is evidenced, penalties may be imposed such as:

- mark reduction for affected external assessments
- disqualification from the qualification
- debarment from registration for Pearson qualifications for a period of time.

If we are concerned about your centre's quality procedures we may impose sanctions such as:

- working with you to create an improvement action plan
- requiring staff members to receive further training
- placing temporary blocks on your certificates
- placing temporary blocks on registration of learners
- debarring staff members or the centre from delivering Pearson qualifications
- suspending or withdrawing centre approval status.

The centre will be notified if any of these apply.

Pearson has established procedures for centres that are considering appeals against penalties and sanctions arising from malpractice. Appeals against a decision made by Pearson will normally be accepted only from the head of centres (on behalf of learners and/or members or staff) and from individual members (in respect of a decision taken against them personally). Further information on appeals can be found in our *Enquiries and Appeals policy*, on our website. In the initial stage of any aspect of malpractice, please notify the Investigations Team (via pgsmalpractice@pearson.com) who will inform you of the next steps.

Reasonable adjustments to assessment

Centres are able to make adjustments to assessments to take account of the needs of individual learners in line with the guidance given in the document *Pearson Supplementary Guidance for Reasonable Adjustment and Special Consideration in Vocational Internally Assessed Units*. In most instances, adjustments can be achieved by following the guidance; for example allowing the use of assistive technology or adjusting the format of the evidence. We can advise you if you are uncertain as to whether an adjustment is fair and reasonable. Any reasonable adjustment must reflect the normal learning or working practice of a learner in a centre or working within the occupational area.

Further information on access arrangements can be found in the Joint Council for Qualifications (JCQ) document *Adjustments for candidates with disabilities and learning difficulties, Access Arrangements, Reasonable Adjustments and Special Consideration for General and Vocational qualifications.*

Both documents are on our website.

Special consideration

Centres must operate special consideration in line with the guidance given in the document *Pearson Supplementary Guidance for Reasonable Adjustment and Special Consideration in Vocational Internally Assessed Units*. Special consideration may not be applicable in instances where:

- assessment requires the demonstration of practical competence
- criteria have to be met fully
- units/qualifications confer licence to practice.

Centres cannot apply their own special consideration; applications for special consideration must be made to Pearson and can be made only on a case-by-case basis. A separate application must be made for each learner and certification claims must not be made until the outcome of the application has been received.

Further information on special consideration can be found in the Joint Council for Qualifications (JCQ) document *Access Arrangements, Reasonable Adjustments and Special Consideration, General and Vocational qualifications*.

Both of the documents mentioned above are on our website.

9 Centre recognition and approval

Centre recognition

Centres that have not previously offered Pearson competence-based qualifications need to apply for and be granted centre recognition and approval as part of the process for approval to offer individual qualifications.

Existing centres will be given 'automatic approval' for a new qualification if they are already approved for a qualification that is being replaced by a new qualification and the conditions for automatic approval are met.

Guidance on seeking approval to deliver Pearson vocational qualifications is available on our website.

Approvals agreement

All centres are required to enter into an approval agreement, which is a formal commitment by the head or principal of a centre, to meet all the requirements of the specification and any associated codes, conditions or regulations. Pearson will act to protect the integrity of the awarding of qualifications. If centres do not comply with the agreement, this could result in the suspension of certification or withdrawal of approval.

10 Quality assurance of centres

Quality assurance is at the heart of vocational qualifications. Centres are required to declare their commitment to ensuring quality and to giving learners appropriate opportunities that lead to valid and accurate assessment outcomes.

Centres must follow quality assurance requirements for standardisation of assessors and internal verifiers and the monitoring and recording of assessment processes. Pearson uses external quality assurance procedures to check that all centres are working to national standards. It gives us the opportunity to identify and provide support to safeguard certification and quality standards. It also allows us to recognise and support good practice.

Centres offering competence-based qualifications will receive at least one visit from our Standards Verifier, followed by ongoing support and development. This may result in more visits or remote support, as required to complete standards verification. The exact frequency and duration of Standards Verifier visits will reflect the centre's performance, taking account of the:

- number of assessment sites
- number and throughput of learners
- number and turnover of assessors
- number and turnover of internal verifiers.

In order for certification to be released, confirmation is required that the Occupational Standards for assessment and verification, and for the specific occupational sector are being met consistently.

For further details, please go to the document the document General Guidance for Centres and Learners. Additionally, centres offering the qualification as stand-alone should refer to the document Centre Guide to Quality Assurance Pearson NVQ/SVQ & Competence-based Qualifications, and centres offering the qualification within BTEC Apprenticeship frameworks should refer to the document Quality Assurance Handbook BTEC Apprenticeship.

All three documents mentioned above are available on our website, qualifications.pearson.com

11 Unit format

Each unit has the following sections.

Unit number

The number is in a sequence in the specification. Where a specification has more than one qualification, numbers may not be sequential for an individual qualification.

Unit title

This is the formal title of the unit which will appear on the learner's certificate.

Level

All units and qualifications have a level assigned to them. The level assigned is informed by the level descriptors defined by Ofqual, the qualifications regulator.

Unit type

This says if the unit is mandatory or optional for the qualification. See information in Section 4 Qualification structure for full details.

Credit value

All units in this qualification have a credit value. The minimum credit value is 1 and credits can be awarded in whole numbers only.

Guided Learning Hours (GLH)

Guided Learning Hours (GLH) is the number of hours that a centre delivering the qualification needs to provide. Guided learning means activities that directly or immediately involve tutors and assessors in teaching, supervising, and invigilating learners, for example lectures, tutorials, online instruction and supervised study.

Pearson has consulted with users of the qualification and has assigned a number of hours to this activity for each unit.

Unit summary

This summarises the purpose of the unit and the learning the unit offers.

Unit assessment requirements

This outlines the requirements for the assessment of the unit. Learners must provide evidence according to each of the requirements stated in this section.

Learning outcomes

The learning outcomes set out what a learner will know, understand or be able to do as the result of a process of learning.

Assessment criteria

The assessment criteria specify the standard the learner is required to meet to achieve a learning outcome.

Unit 1: Installing, Maintaining

and Removing Work
Area Protection and
Safety Equipment in
the Workplace

Level: 2

Unit type: Mandatory

Guided learning hours: 55

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in establishing work area protection and safety in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, plans, risk assessments, method statements, specifications, schedules, site inspections and manufacturers' information			
	work and resources 1.2 Com	Comply with information and/or instructions derived from risk assessments and method statements				
	removing work area protection and safety equipment	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, plans, risk assessments, method statements, specifications, schedules, site inspection reports, manufacturers' information, regulations and official guidance associated with protecting work areas 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when establishing work area protection and	2.1	Describe their responsibilities regarding potential accidents and health hazards, whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	safety	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when installing,	3.1	Use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when establishing work area protection and safety			
	maintaining and removing work area protection and safety equipment	3.2	Demonstrate compliance with given information and relevant legislation when installing, maintaining and removing work area protection and safety equipment in relation to at least two of the following:			
			safe use of access equipment			
			safe use, storage and handling of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to establishing work area protection and safety, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components and fixings, and tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	install, maintain and remove work		 safety and security equipment (cones, tapes, fences, barriers, hoarding, doors, gates) 			
	area protection and safety equipment		protection and safety notices			
	safety equipment		signs and lighting			
			hand and/or powered tools and equipment			
		4.3	Describe how to confirm that the resources and materials conform to the specification			
		4.4	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.5	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.6	Describe any potential hazards associated with the resources and methods of work			
		4.7	Describe how to calculate quantity, length and area associated with the method and procedure to install, maintain and remove work area protection and safety equipment			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Maintain a clear and tidy work space			
	when installing,	5.3	Dispose of waste in accordance with current legislation			
	maintaining and removing work area protection and safety equipment	noving work protection in relation to general workplace activities, other occupations and adverse weather conditions				
	safety equipment	5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when installing,	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	maintaining and		types of productivity targets and time scales			
	removing work		how times are estimated			
	area protection and safety equipment		organisational procedures for reporting circumstances which will affect the work programme			

7 Comply with the given contract information to install, maintain and remove work area protection and safety equipment to the required specification				Evidence type	Portfolio reference	Date
7	given contract information to install, maintain	7.1	Demonstrate the following work skills when establishing work area protection and safety: • measuring, setting out, positioning, assembling, constructing, securing and dismantling			
	and remove work area protection and safety equipment to the required specification 7.2 Use and main arrangements relating to protection • protection	Use and maintain hand tools, power tools and ancillary equipment				
		7.3	Install, maintain and remove temporary protection and safety arrangements for the work area, to given working instructions, relating to protection equipment, barriers, fences and at least one of the following:			
			protection and safety notices			
			safety lighting			
		7.4	Report work undertaken			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		 plan for the protection and the safety of the work and surrounding environment 			
		conform to agreed specification			
		 confirm the location of utility services and ensure they are protected 			
		 prepare and set out area protection equipment to required dimensions 			
		install, check and maintain the protection and safety equipment			
		dismantle and remove protection and safety equipment			
		install safety notices			
		install lighting systems			
		 monitor and check accuracy during progress and on completion of work 			
		 install, maintain and remove work area protection equipment in public areas 			
		transport, load and off load work area protection equipment			
		recognise and determine when specialist skills and knowledge are required and report accordingly			
		use hand tools, power tools and equipment			
		work at height			
		use access equipment			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.6	Describe the needs of other occupations and how to communicate effectively within a team when installing, maintaining and removing work area protection and safety equipment in the workplace			
		7.7	Describe how to maintain the tools and equipment used when installing, maintaining and removing work area protection and safety equipment in the workplace			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 2: Conforming to General

Health, Safety and

Welfare in the

Workplace

Level: 1

Unit type: Mandatory

Guided learning hours: 7

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in conforming to general health, safety and welfare in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Comply with all workplace health, safety and welfare	1.1	Comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area			
	legislation requirements	The state of the s				
		1.3	Comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment			
	1.4	1.4	State why and when health and safety control equipment, identified by the principles of protection, should be used relating to types, purpose and limitations of each type, the work situation, occupational use and the general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		1.5	State how the health and safety control equipment relevant to the work should be used in accordance with the given instructions			
		1.6	State which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment			
		1.7	State why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area			
		1.8	State how to comply with control measures that have been identified by risk assessments and safe systems of work			
2	Recognise hazards associated with the workplace that have not been previously controlled and	2.1	Report any hazards created by changing circumstances within the workplace in accordance with organisational procedures			
		2.2	List typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities			
	report them in	2.3	List the current Health and Safety Executive top ten safety risks			
	accordance with organisational	2.4	List the current Health and Safety Executive top five health risks			
	procedures	2.5	State how changing circumstances within the workplace could cause hazards			
		2.6	State the methods used for reporting changed circumstances, hazards and incidents in the workplace			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Comply with organisational	3.1	Interpret and comply with given instructions to maintain safe systems of work and quality working practices			
	policies and procedures to contribute to	3.2	Contribute to discussions by offering/providing feedback relating to health, safety and welfare			
	health, safety and welfare	3.3	Contribute to the maintenance of workplace welfare facilities in accordance with workplace welfare procedures			
		3.4	Safely store health and safety control equipment in accordance with given instructions			
		3.5	Dispose of waste and/or consumable items in accordance with legislation			
		3.6	State the organisational policies and procedures for health, safety and welfare in relation to:			
			dealing with accidents and emergencies associated with the work and environment			
			methods of receiving or sourcing information			
			reporting			
			stopping work			
			evacuation			
			fire risks and safe exit procedures			
			consultation and feedback			
		3.7	State the appropriate types of fire extinguishers relevant to the work			
		3.8	State how and when the different types of fire extinguishers are used in accordance with legislation and official guidance			

Learning outcomes		ning outcomes Assessment criteria		Evidence type	Portfolio reference	Date
4	Work responsibly to contribute to	4.1	Demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare			
safe whil worl rele	workplace health, safety and welfare whilst carrying out work in the relevant occupational area	4.2	State how personal behaviour demonstrates responsibility for general workplace health, safety and welfare in relation to: • recognising when to stop work in the face of serious and imminent danger to self and/or others • contributing to discussions and providing feedback • reporting changed circumstances and incidents in the workplace • complying with the environmental requirements of the workplace			
		4.3 Give examples of how the behaviour and actions of individuals could affect others within the workplace				
5	Comply with and support all organisational security arrangements and approved procedures	5.1	Provide appropriate support for security arrangements in accordance with approved procedures: • during the working day • on completion of the day's work • for unauthorised personnel (other operatives and the general public) • for theft			
		5.2	State how security arrangements are implemented in relation to the workplace, the general public, site personnel and resources			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 3: Conforming to

Productive Working

Practices in the

Workplace

Level: 2

Unit type Mandatory

Guided learning hours: 10

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in conforming to productive practices in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Communicate with others to establish productive work	1.1	Communicate in an appropriate manner with line management, colleagues and/or customers to ensure that work is carried out productively			
	practices	1.2	Describe the different methods of communicating with line management, colleagues and customers			
		1.3	Describe how to use different methods of communication to ensure that the work carried out is productive			
2	Follow organisational procedures to plan the sequence of work	2.1	Interpret relevant information from organisational procedures in order to plan the sequence of work			
		he sequence of	Plan the sequence of work, using appropriate resources, in accordance with organisational procedures to ensure work is completed productively			
		2.3	Describe how organisational procedures are applied to ensure work is planned and carried out productively in relation to:			
			using resources for own and others' work requirements			
			allocating appropriate work to employees			
			organising the work sequence			
			reducing carbon emissions			
		2.4	Describe how to contribute to zero/low carbon work outcomes within the built environment			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
3	Maintain relevant records in	3.1	Complete relevant documentation according to the occupation as required by the organisation			
	accordance with the organisational procedures	3.2	Describe how to complete and maintain documentation in accordance with organisational procedures in relation to:			
	procedures		job cards			
			worksheets			
			material/resource lists			
			time sheets			
		3.3	Explain the reasons for ensuring documentation is completed clearly and within given timescales			

Learning outcomes		ning outcomes Assessment criteria		Evidence type	Portfolio reference	Date
4	Maintain good working relationships when conforming to	4.1	Carry out work productively, to the agreed specification, in conjunction with line management, colleagues, customers and/or other relevant people involved in the work to maintain good working relationships			
	productive working practices	4.2	Apply the principles of equality and diversity and respect the needs of individuals when communicating and working with others			
		4.3	Describe how to maintain good working relationships in relation to:			
			individuals			
			customer and operative			
			operative and line management			
			own and others' occupations			
		4.4	Describe why it is important to work effectively with line management, colleagues and customers			
		4.5	Describe how working relationships could have an effect on productive working			
		4.6	Describe how to apply principles of equality and diversity when communicating and working with others			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 4: Moving, Handling and

Storing Resources in

the Workplace

Level: 2

Unit type: Mandatory

Guided learning hours: 17

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in moving, handling and storing resources in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
1	Comply with given information when	1.1	Interpret the given information relating to moving, handling and/or storing resources, relevant to the given occupation			
	moving, handling and/or storing resources	1.2	Interpret the given information relating to the use and storage of lifting aids and equipment			
	resources	1.3	Describe the different types of technical, product and regulatory information, their source and how they are interpreted			
		1.4	State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.5	Describe how to obtain information relating to using and storing lifting aids and equipment			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when	2.1	Describe their responsibilities under current legislation and official guidance whilst working: • in the workplace, in confined spaces, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and			
	moving, handling and/or storing resources		with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making the reports			
		2.4	State the appropriate types of fire extinguishers relevant to the work			
		2.5	Describe how and when the different types of fire extinguishers, relevant to the given occupation, are used in accordance with legislation and official guidance			

Lea	Learning outcomes		g outcomes Assessment criteria		Portfolio reference	Date
3	Maintain safe working practices when moving,	3.1	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when moving, handling and/or storing resources			
	handling and/or storing resources	3.2	Use lifting aids safely as appropriate to the work			
	ocorning resources	3.3	Protect the environment in accordance with safe working practices as appropriate to the work			
		3.4	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to moving, handling and/or storing resources, and the types, purpose and limitations of each type, the work situation, occupational use and the general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.5	Describe how the health and safety control equipment relevant to the work should be used in accordance with the given instructions			
		3.6	State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
qua qua res	Select the required quantity and	4.1	Select the relevant resources to be moved, handled and/or stored, associated with own work			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the occupational resources in relation to:			
	move, handle		lifting and handling aids			
	and/or store occupational		• container(s)			
	resources		fixing, holding and securing systems			
		4.3	Describe how the resources should be handled and how any problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Prevent the risk of damage to occupational	5.1	Protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures			
	resources and surrounding	5.2	Dispose of waste and packaging in accordance with legislation			
	environment when moving, handling	5.3	Maintain a clean work space when moving, handling or storing resources			
	and/or storing resources	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when moving, handling and/or	6.2	State the purpose of the work programme and explain why deadlines should be kept in relation to:			
	storing resources		progress charts, timetables and estimated times			
	5		organisational procedures for reporting circumstances which will affect the work programme			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given occupational	7.1	Demonstrate the following work skills when moving, handling and/or storing occupational resources:			
	resource information to move, handle		 moving, positioning, storing, securing and/or using lifting aids and kinetic lifting techniques 			
	and/or store resources to the required guidance	7.2	Move, handle and/or store occupational resources to meet product information and organisational requirements relating to three of the following:			
			sheet material			
			loose material			
			bagged or wrapped material			
			fragile material			
			tools and equipment			
			• components			
			liquids			
		7.3	Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them when moving, handling and/or storing occupational resources			
		7.4	Describe the needs of other occupations when moving, handling and/or storing resources			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 5: Surveying Degraded

Concrete Structures in

the Workplace

Level: 2

Unit type Mandatory in Pathway 2

Guided learning hours: 53

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in surveying degraded concrete structures in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the Construction Skills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
ir re w w d	Interpret the given information relating to the work and resources when surveying degraded concrete structures	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings			
			specifications			
			schedules			
			method statements			
		risk assessment	risk assessments			
			work instructions			
			electronic data			
			manufacturers' information			
			current regulations			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when surveying degraded concrete structures	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when surveying degraded concrete structures	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when surveying degraded concrete structures			
		rete 3.2	Demonstrate compliance with given information and relevant legislation when surveying degraded concrete structures in relation to three of the following:			
			safe use of access equipment			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to surveying degraded concrete structures, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
		• respira	respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	survey degraded		• hammer			
	concrete structures		dust sampler			
			phenolphthalein (ph indicator)			
			cover meter			
			half-cell testing equipment			
			hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, and area associated with the method/procedure to survey degraded concrete structures			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when surveying	5.3	Dispose of waste in accordance with current legislation			
	degraded concrete structures	15 4 Describe now to order work from damage and the offices of				
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
time wh	within the allocated time when surveying	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	degraded concrete		types of progress charts, timetables and estimated times			
	Sti uctui es		 organisational procedures for reporting circumstances which will affect the work programme 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to survey degraded concrete structures	7.1	Demonstrate the following work skills when surveying degraded concrete structures: • measuring, marking out, protecting, preparing, testing, recording and reporting			
	to the required specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Survey degraded concrete to identify and test for defects to given working instructions by two of the following methods:			
			visual			
			mechanical means			
			chemical means			
			electrochemical means			
		7.4	Record and report results when surveying degraded concrete structures			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		position and prepare survey equipment			
		measure and mark out areas to be surveyed			
		visually determine defects in concrete			
		identify asbestos and products that may contain asbestos			
		 use the equipment to sample dust, and detect decay, damage, cracking, carbonisation, reinforcement corrosion, reinforcement cover, prepare and use chemicals to test concrete 			
		recognise and determine when specific skills and knowledge are required and report accordingly			
		record and report survey results			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			
	7.6	Describe the needs of other occupations and how to effectively communicate within a team when surveying degraded concrete structures			
	7.7	Describe how to maintain the tools and equipment used when surveying degraded concrete structures			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 6: Preparing Substrate

and Applying Materials to Repair Concrete in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 1

Guided learning hours: 47

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing substrate and applying materials to repair concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
	relating to the work and resources when preparing substrate and applying materials to repair concrete	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when preparing substrate and applying	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	materials to repair concrete	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when preparing substrate	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing substrate and applying materials to repair concrete			
	and applying materials to repair concrete	3.2	Demonstrate compliance with given information and relevant legislation when preparing substrate and applying materials to repair concrete in relation to three of the following:			
			safe use of access equipment			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing substrate and applying materials to repair concrete, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	prepare substrate and apply		formwork, repair compounds, aggregates, cements, additives, reinforcement, primers, bonding agents and membranes			
	materials to repair concrete		saws, drills, mixers and sprayers			
	Concrete		hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area volume and wastage associated with the method/procedure to prepare substrate and apply materials to repair concrete			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when preparing	5.3	Dispose of waste in accordance with current legislation			
	substrate and applying materials to repair concrete	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when preparing substrate	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	and applying materials to repair concrete		 types of progress charts, timetables and estimated times organisational procedures for reporting circumstances which will affect the work programme 			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
7	Comply with the given contract information to prepare substrate and apply	7.1	Demonstrate the following work skills when preparing substrate and applying materials to repair concrete: • measuring, marking out, locating, protecting, breaking out, cleaning, replacing, erecting, mixing, applying, finishing and curing			
	materials to repair concrete to the required specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Repair degraded concrete to given working instructions using five of the following:			
			prepare substrates and reinforcement			
			apply primers, bonding agents and repair compounds			
			replace steel reinforcement			
			erect and dismantle formwork			
			protect and cure repaired area			
			record and report repairs carried out			

Learning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		locate services and protect adjacent areas			
		break out defective concrete			
		clean concrete and steel			
		measure, record and act on environmental conditions			
		replace steel reinforcement			
		apply corrosion protection			
		erect and dismantle formwork			
		apply primers and bonding agents			
		mix and apply repair compounds			
		monitor and control exposure to vibration			
		finish repaired areas			
		protect and cure			
		recognise and determine when specific skills and knowledge are required and report accordingly			
		complete records and prepare reports			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			

Learning outcomes Assessment criteria		Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when preparing substrate and applying materials to repair concrete			
		7.6	Describe how to maintain the tools and equipment used when preparing substrate and applying materials to repair concrete			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 7: Preparing Substrate for

Sprayed Concrete in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 2

Guided learning hours: 40

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing substrate for sprayed concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when preparing	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	substrate for sprayed concrete	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when preparing substrate for sprayed	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	concrete	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when preparing substrate	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing substrate for sprayed concrete			
	for sprayed concrete	3.2	Demonstrate compliance with given information and relevant legislation when preparing substrate for sprayed concrete in relation to three of the following:			
			safe use of access equipment			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing substrate for sprayed concrete, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Learning outcomes		nes Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	prepare substrate for sprayed concrete		 temporary supports, screens, barriers, reinforcement, tying wire, pins, formwork 			
			hand tools, portable power tools and equipment			
			jet washing and grit blasting equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area and wastage associated with the method/procedure to prepare substrate for sprayed concrete			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when preparing	5.3	Dispose of waste in accordance with current legislation			
	substrate for sprayed concrete	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work within the allocated time when preparing substrate	6.1	Demonstrate completion of the work within the allocated time			
		6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	for sprayed		types of progress charts, timetables and estimated times			
	concrete		organisational procedures for reporting circumstances which will affect the work programme			

Learning outcomes				Evidence type	Portfolio reference	Date
7	Comply with the given contract		Demonstrate the following work skills when preparing substrate for sprayed concrete:			
	information to prepare substrate for sprayed		 measuring, marking out, locating, protecting, supporting, breaking out, cleaning, profiling, tying, erecting, recording and reporting 			
	concrete to the required	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	specification	7.3	Prepare substrates prior to receiving sprayed concrete to given working instructions relating to seven of the following:			
			locate and protect services			
			break out loose and de-bonded materials			
			roughen smooth surfaces			
			clear and clean			
		surface profile levelstie and secure reinforcement bar and/or mesh	surface profile levels			
			tie and secure reinforcement bar and/or mesh			
			fit guide wires			
			fit depth pins			
			erect formwork			
			record and report work carried out			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		locate and protect services (water, gas, electric and waste)			
		break out, profile, square cut, clean and prepare,			
		identify when substrate needs to be supported			
		confirm substrate is ready to receive sprayed concrete			
		position and secure reinforcement			
		apply corrosion protection			
		erect and dismantle formwork			
		install guide wires and depth pins			
		record and report			
		recognise and determine when specific skills and knowledge are required and report accordingly			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			

Le	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when preparing substrate for sprayed concrete			
		7.6	Describe how to maintain the tools and equipment used when preparing substrate for sprayed concrete			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 8: Applying Sprayed

Concrete in the

Workplace

Level: 2

Unit type: Mandatory in Pathway 2

Guided learning hours: 53

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in applying sprayed concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	Learning outcomes		sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when applying sprayed concrete	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2 Know how to comply with relevant legislation and official guidance when applying sprayed concrete	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting				
	Concrete	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when applying sprayed	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when applying sprayed concrete			
	concrete	3.2	Demonstrate compliance with given information and relevant legislation when applying sprayed concrete in relation to three of the following:			
			safe use of access equipment			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to applying sprayed concrete, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Learning outcomes		Asses	Assessment criteria		Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	apply sprayed concrete		sand, aggregate, cements, water, additives, admixtures, structural concrete, curing membranes			
			working platforms			
			 hand tools, portable power tools, spraying and testing equipment and ancillaries 			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to apply sprayed concrete			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when applying	5.3	Dispose of waste in accordance with current legislation			
	sprayed concrete	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when applying sprayed concrete	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
			types of progress charts, timetables and estimated times			
			 organisational procedures for reporting circumstances which will affect the work programme 			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract	7.1	Demonstrate the following work skills when applying sprayed concrete:			
	information to apply sprayed concrete to the		 measuring, marking out, assembling, checking, preparing, finishing, curing, protecting, testing, recording and reporting 			
	required specification	7.2	Use and maintain concrete spraying machinery and compressor, hand tools, portable power tools and ancillary equipment			
		7.3	Apply sprayed concrete by wet and/or dry methods to given working instructions for five of the following:			
			pre-wet surfaces for spraying			
			spray concrete to profile			
			produce samples for testing			
			cure and protect concrete			
			record and report on test			
			record and report on spraying			
			operate spraying nozzle			
		operate pump				
			clean pump			
			clear lines			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		assemble and check spray equipment (wet and/or dry application)			
		 prepare substrates including wetting, depth guides and protection measures 			
		maintain protection against overspray and rebounding materials			
		set up spray and pumping equipment			
		operate robotic spraying equipment			
		operate hand-held spraying equipment			
		spray in layers to agreed profile and depth			
		apply specified finish			
		cure and protect concrete			
		 provide samples for testing concrete (compression, tension, consistency and workability) 			
		record and report			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		operate spraying machines, compressors and pumps			
		 maintain spraying machines, nozzles, hoses, compressors and pumps during operations 			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when applying sprayed concrete			
		7.6	Describe how to maintain the tools and equipment used when applying sprayed concrete			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 9: Preparing Backgrounds

Prior to Laying

Decorative Concrete in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 3

Guided learning hours: 40

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing backgrounds prior to laying decorative concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when preparing	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	backgrounds prior to laying decorative concrete	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations governing buildings 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	2 Know how to comply with relevant legislation and official guidance when preparing backgrounds prior to laying decorative concrete	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when preparing	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing backgrounds prior to laying decorative concrete			
	backgrounds prior to laying decorative concrete	3.2	Demonstrate compliance with given information and relevant legislation when preparing backgrounds prior to laying decorative concrete in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing backgrounds prior to laying decorative concrete, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes			Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to prepare backgrounds prior to laying decorative concrete	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: • protection materials • blinding • sub-bases • drainage materials • edge restraint/shutters • fibre reinforcement • fixings • hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, volume, length, area and wastage associated with the method/procedure to prepare backgrounds prior to laying decorative concrete			

Lea	arning outcomes	Asses	Assessment criteria		Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when preparing	5.3	Dispose of waste in accordance with current legislation			
	backgrounds prior to laying decorative concrete	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when preparing backgrounds prior to laying decorative concrete	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: • types of progress charts, timetables and estimated times			
			 organisational procedures for reporting circumstances which will affect the work programme 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
giv inf pr	omply with the iven contract formation to repare ackgrounds prior	7.1	Demonstrate the following work skills when preparing backgrounds prior to laying decorative concrete: • measuring, marking out, locating, protecting, preparing, formatting, draining, placing, installing and securing			
to	to laying decorative concrete to the required specification 7.2 Use and maintain hand tools, portable power tools and a equipment 7.3 Prepare backgrounds for decorative concrete to given we instructions: • earthworks, prepare, lay and compact substrates • site preparation, lines, levels and gradients • drainage installation	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		 locate and protect services (water, gas, electric and waste), including overhead utilities 			
		protect existing structures			
		 work around, in close proximity, with, plant and machinery 			
		direct and guide plant and machinery			
		excavate to line, level and prepare formation			
		install drainage including soak-aways			
		level, spread and compact sub-bases			
		install and remove edge restraint/shutters			
		secure reinforcement			
		prepare vertical surfaces (steps and risers)			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		use hand tools, portable power tools and equipment			
		work at height			
	7.5	Describe the needs of other occupations and how to effectively communicate within a team when preparing backgrounds prior to laying decorative concrete			
	7.6	Describe how to maintain the tools and equipment used when preparing backgrounds prior to laying decorative concrete			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 10: Placing Concrete and

Producing a Decorative Finish in the Workplace

Level: 2

Unit type: Mandatory in Pathway 3

Guided learning hours: 60

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in placing concrete and producing a decorative finish in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
	relating to the work and resources when placing	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	concrete and producing a decorative finish	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations governing buildings 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when placing concrete and producing a	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	decorative finish	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when placing concrete	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when placing concrete and producing a decorative finish			
	and producing a decorative finish	3.2	Demonstrate compliance with given information and relevant legislation when placing concrete and producing a decorative finish in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to placing concrete and producing a decorative finish, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	place concrete and		• concrete			
	produce a decorative finish		 retarders, sealers, hardeners, resins (polymers, colours), cleaning agents, repair compounds, release agents 			
			diluted acid			
			integral colouring agents			
			aggregate			
			stencils, mats and/or skins			
			hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to place concrete and produce a decorative finish			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when placing	5.3	Dispose of waste in accordance with current legislation			
	concrete and producing a decorative finish	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when placing concrete and	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	producing a decorative finish		 types of progress charts, timetables and estimated times organisational procedures for reporting circumstances which will affect the work programme 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to place concrete and produce a decorative finish to	7.1	 Demonstrate the following work skills when placing concrete and producing a decorative finish: measuring, marking out, handling, placing, testing, compacting, screeding, applying, finishing, jointing, sealing, protecting and curing 			
	the required specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Place concrete to levels and falls, test and produce specialist surface finishes to given working instructions, for one of the following: • imprinted			
			exposed aggregate			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			receive, handle, place, test and float concrete to falls and levels			
			form steps			
			 place concrete for imprinting: apply colour, float and edge, apply release agents, prepare edge, align and position mats and print 			
			 place concrete for exposed aggregate: apply trowelled finish, seed aggregate, tamp, apply retarder, jet wash/hose off laitance, apply acid wash 			
			recognise process timings			
			work to and meet agreed quality criteria			
			repair defects, cut joints, seal			
			protect and cure			
			apply acid etching			
			carry out remedials			
			recognise and determine when specific skills and knowledge are required and report accordingly			
			use hand tools, portable power tools and equipment			
			work at height			

Lea			Evidence type	Portfolio reference	Date	
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when placing concrete and producing a decorative finish			
		7.6	Describe how to maintain the tools and equipment used when placing concrete and producing a decorative finish			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 11: Installing Street

Ironwork (Metal,

Plastic, Concrete and Composite Materials) in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 3

Guided learning hours: 50

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in installing street ironwork in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	rning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when installing street ironwork	1.1	Interpret and extract relevant information from drawings, risk assessments, method statements, specifications, schedules and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	(metal, plastic, concrete and composite	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
	materials)	1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, risk assessments, method statements, manufacturers' information, verbal, written and graphical instructions and current regulations for installing street ironwork fixtures (metal, plastic, concrete and composite materials) 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when installing street ironwork (metal, plastic, concrete and composite materials)	2.1	 Describe their responsibilities regarding potential accidents and health hazards whilst working: in the workplace, below ground level, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting 			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when installing street ironwork (metal, plastic, concrete and composite materials)	ealthy working ractices when	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when installing street ironwork (metal, plastic, concrete and composite materials).			
		3.2	Demonstrate compliance with given information and relevant legislation when installing street ironwork (metal, plastic, concrete and composite materials) in relation to the following:			
			safe use, storage and handling of materials, tools and equipment			
			specific risks to health			
			those affected by the work			
		3.3	Explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to installing street ironwork (metal, plastic, concrete and composite materials), and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Learning outcomes		ing outcomes Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components and fixings, and tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	install street		sand, cement, mortar, patent epoxy resin-based materials			
	ironwork (metal, plastic, concrete		bricks, shims and proprietary products for adjusting			
	and composite		access covers and frames, gully grates and frames			
	materials).		hand and/or powered tools and equipment			
		4.3	Describe how to confirm that the resources and materials conform to the specification.			
		4.4	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.5	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.6	Describe any potential hazards associated with the resources and methods of work			
		4.7	Describe how to identify by calculation, quantity and size associated with the method and procedure to install street ironwork (metal, plastic, concrete and composite materials).			

Learning outcomes		ng outcomes Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Maintain a clear and tidy work space			
	when installing	5.3	Dispose of waste in accordance with current legislation			
	street ironwork (metal, plastic, concrete and composite materials).	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when installing street ironwork (metal, plastic, concrete and composite materials).	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
			 types of productivity targets and time scales how times are estimated organisational procedures for reporting circumstances which will affect the work programme 			

Le	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to	7.1	 Demonstrate the following work skills when installing street ironwork: measuring, marking out, positioning, fitting, levelling, aligning and securing 			
	install street ironwork (metal,	7.2	Use and maintain hand tools, power tools and ancillary equipment			
	plastic, concrete and composite materials) to the	7.3	Install street ironwork (metal, plastic, concrete and composite materials) to new and/or reinstated pavements to given working instructions relating to the following:			
	required specification		access covers and frames			
	Specification		gully grates and frames			
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			 confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection 			
			 locate the area and position where the street ironwork is to be installed 			
			conform to agreed specifications			
			remove, take up and set aside street ironworks			
			confirm the street ironwork, fixing and bedding requirements			
			work around street furniture			
			adjust height of existing street ironwork			
			position, fit, align, level and secure the street ironwork			
			protect ironwork during curing			
			return infrastructure to operational status			
			 recognise and determine when specialist skills and knowledge are required and report accordingly 			
			use hand tools, power tools and equipment			
			use ancillary equipment			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
	7.5	Describe the needs of other occupations and how to effectively communicate within a team when installing street ironwork (metal, plastic, concrete and composite materials).			
	7.6	Describe how to maintain the tools and equipment used when installing street ironwork (metal, plastic, concrete and composite materials).			
	7.7	Describe the needs of other occupations and how to effectively communicate within a team when installing street ironwork			
	7.8	Describe how to maintain the tools and equipment used when installing street ironwork			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 12: Setting out Secondary

Dimensional Work

Control in the

Workplace

Level: 2

Unity type: Mandatory in Pathway 3

Guided learning hours: 23

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in setting out secondary dimensional work control in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to setting out dimensional control of the work	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and reference points			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, reference points and current regulations governing buildings and construction work			

Learning outcomes A		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance to set out dimensional control of the work	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when setting out	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during setting out dimensional control of the work			
	dimensional control of the work	3.2	Demonstrate compliance with given information and relevant legislation when setting out dimensional control of the work in relation to two or more of the following:			
			safe use of access equipment/working platforms			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to setting out dimensional control of the work, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	ing outcomes Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and quality of	4.1	Select resources associated with the work in relation to measuring tools and instruments, marking materials/components, tools and equipment			
	resources to set out dimensional control of the work	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:			
			measuring tools and instruments			
			marking equipment			
			level and alignment tools			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to identify quantity of resources associated with the method/procedure to set out for secondary dimensional work control			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Prevent damage and maintain a clean work area			
	when setting out	5.3	Dispose of waste in accordance with current legislation			
	dimensional control of the work	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when setting out dimensional	6.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:			
	control of the work		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract	7.1	Demonstrate the following work skills when setting out dimensional control of the work:			
	information to set out dimensional control of the work		 transferring, transposing, levelling, measuring, marking, positioning, fixing and securing 			
	to the required	7.2	Use and maintain hand tools, measuring and marking equipment			
	specification	7.3	Set out secondary dimensional control for the work to given working instructions for three or more of the following:			
			• line			
			• level			
			depth			
			• area			
			height			
			angle			
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify to:			
			measure and set out secondary dimensional control for the work			
			measure, align and level to dimensional control requirements			
			 transfer and set out lines, angles and levels to dimensional control requirements 			
			recognise and determine when specific skills and knowledge are required and report accordingly			
			use hand tools, measuring and marking equipment			
			work at height			
			use access equipment			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe how to calculate height, depth, angle, length and area associated with the method/procedure to set out secondary dimensional work control			
		7.6	Describe the needs of other occupations and how to effectively communicate within a team when setting out dimensional control of the work			
		7.7	Describe how to maintain the hand tools (measuring, marking and ancillary), and equipment used to set out dimensional control of the work			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 13: Reshaping Using Hand

Sawing Techniques in

the Workplace

Level: 2

Unit type: Mandatory in Pathways 4, 5 & 6

Guided learning hours: 70

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in reshaping using hand sawing techniques in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when reshaping using hand sawing techniques	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		en reshaping 1.2 Comply with info	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when reshaping using hand sawing	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	techniques	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when reshaping using hand sawing techniques	3.1	Use health and safety control equipment and comply with the methods of work safely to carry out the activity in accordance with current legislation and organisational requirements when reshaping using hand sawing techniques			
		3.2	Demonstrate compliance with given information and relevant legislation when reshaping using hand sawing techniques in relation to two of the following:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to reshaping using hand sawing techniques, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	reshape using hand		consumables, including blades			
	sawing techniques		angle grinders, power saws, ring saws, chainsaws			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, volume and area associated with the method/procedure to reshape using hand sawing techniques			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when reshaping	5.3	Dispose of waste in accordance with current legislation			
	using hand sawing techniques	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when reshaping using	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	hand sawing		types of progress charts, timetables and estimated times			
	techniques		organisational procedures for reporting circumstances which will affect the work programme			

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract		Demonstrate the following work skills when reshaping using hand sawing techniques:			
	information to reshape using hand sawing techniques		 measuring, chasing, checking, confirming, setting up, securing, aligning, connecting, cutting, reporting and recording 			
	to the required specification		Use and maintain hand tools, portable power tools, ancillary equipment, angle grinder and one from the following:			
			power saw			
			ring saw			
			chasing machine			
			chainsaw			
		7.3	Form saw cuts in one of the following to given working instructions, relating to vertical and/or horizontal surfaces:			
			• concrete			
			masonry			
			• stone			
			asphalt			
		7.4	Measure and record work details on completion of forming saw cuts			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
	7.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to: complete pre-start and post stop checks set up and operate: angle grinders, power saws, ring saws, chainsaws and chasing machines locate and protect services (water, gas, electric, waste) apply coolant and lubricants form openings and cut to line, depth and size deal with voids monitor and control exposure to vibration report, record and maintain records recognise and determine when specific skills and knowledge are required and report accordingly use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) work at height use access equipment			
	7.6	Describe the needs of other occupations and how to effectively communicate within a team when reshaping using hand sawing techniques			
	7.7	Describe how to maintain the tools and equipment used when reshaping using hand sawing techniques			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 14: Forming Drill Holes or

Core in the Structural Fabric (Diamond Core Bits) in the Workplace

Level: 2

Unit type: Mandatory in Pathways 4 & 6

Guided learning hours: 60

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in forming drill holes or core in the structural fabric (diamond core bits) in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the Construction Skills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	1 Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	work and resources when forming drill holes or core in the	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	structural fabric	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations 			

Lea			Evidence type	Portfolio reference	Date	
2	Know how to comply with relevant legislation and official guidance when forming drill holes or core in the	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	structural fabric	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when forming drill holes	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when forming drill holes or core in the structural fabric			
	or core in the structural fabric	3.2	Demonstrate compliance with given information and relevant legislation when forming drill holes or core in the structural fabric in relation to two of the following:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to forming drill holes or core in the structural fabric and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	earning outcomes Assessment criteria		Evidence type	Portfolio reference	Date	
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	form drill holes or core in the		 hand drill diamond core and drills, bits, power units, connectors, fixings and accessories 			
	structural fabric		percussive drills			
			static drill rig diamond core			
			trailer rig diamond core			
			recording and measuring equipment			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area and volume associated with the method/procedure to form drill holes or core in the structural fabric			

Le	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of	5.1	Protect the work and its surrounding area from damage			
	damage to the work and	5.2	Minimise damage and maintain a clean work space			
	surrounding area	5.3	Dispose of waste in accordance with current legislation			
	when forming drill holes or core in the structural fabric	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when forming drill holes or core in the structural fabric	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: • types of progress charts, timetables and estimated times • organisational procedures for reporting circumstances which will affect the work programme			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
7	given contract information to form	7.1	Demonstrate the following work skills when forming drill holes or core in the structural fabric: measuring, marking out, setting up, connecting, drilling or coring			
	drill holes or core in the structural fabric to the	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	required specification	7.3	Form drill holes or take cores using two of the following to given working instructions relating to vertical and horizontal surfaces:			
			hand held diamond core or drill			
			static drill rig diamond core			
			trailer rig diamond core			
			percussive drill			
		7.4	Measure and record work details on completion of forming holes or taking cores			

Learning outcomes	outcomes Assessment criteria		Evidence type	Portfolio reference	Date
	7.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		complete pre-start and post stop checks			
		set up, and operate drilling and coring plant and equipment			
		identify the characteristics of percussive and diamond drilling			
		locate and protect services (water, gas, electric and waste)			
		 form drill holes, including angles, depth, diameter, recesses, stitch drilling and coring 			
		apply coolant and lubricants			
		deal with voids			
		monitor and control exposure to vibration			
		maintain records			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		 use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) 			
		work at height			
		use access equipment			

L	earning outcomes	Asses	Assessment criteria		Portfolio reference	Date
		7.6	Describe the needs of other occupations and how to effectively communicate within a team when forming drill holes or core in the structural fabric			
		7.7	Describe how to maintain the tools and equipment used when forming drill holes or core in the structural fabric			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 15: Forming Saw Cuts in

Structural Fabric Material in the

Workplace

Level: 2

Unit type: Mandatory in Pathways 5 & 6

Additional in Pathways 7, 8, 9,

10 &11

Guided learning hours: 63

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in forming saw cuts in structural fabric material in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
when	work and resources when forming saw cuts in structural	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	fabric material	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations governing buildings 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when forming saw cuts in structural fabric	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	material	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when forming saw cuts in	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when forming saw cuts in structural fabric material			
	structural fabric material	3.2	Demonstrate compliance with given information and relevant legislation when forming saw cuts in structural fabric material in relation to two of the following:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to forming saw cuts in structural fabric material, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	form saw cuts in		consumables, including blades			
	structural fabric material		accessories			
	material		push along floor saw			
			self-propelled floor saw			
			diamond-bladed track saw			
			hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length area and volume associated with the method/procedure to form saw cuts in structural fabric material			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when forming saw	5.3	Dispose of waste in accordance with current legislation			
	cuts in structural fabric material	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when forming saw cuts in	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	structural fabric		types of progress charts, timetables and estimated times			
	material		organisational procedures for reporting circumstances which will affect the work programme			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to form saw cuts in structural fabric	7.1	Demonstrate the following work skills when forming saw cuts in structural fabric material: • measuring, chasing, checking, setting up, securing, aligning, connecting and cutting			
	material to the required	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	specification	7.3	Form saw cuts to given working instructions using one of the following:			
			push along floor saw			
			self-propelled floor saw			
			diamond-bladed track saw			
		7.4	Measure and record work details on completion of forming saw cuts			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			complete pre-start and post stop checks on saws			
			 set up and operate: push along floor saw, self-propelled floor saw and diamond-bladed track saw 			
			locate and protect services (water, gas, electric and waste)			
			form openings and cut to line, depth and size			
			deal with voids			
			monitor and control exposure to vibration			
			report, record and maintain records			
			recognise and determine when specific skills and knowledge are required and report accordingly			
			 use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) 			
			work at height			
			use access equipment			
		7.6	Describe the needs of other occupations and how to effectively communicate within a team when forming saw cuts in structural fabric material			
		7.7	Describe how to maintain the tools and equipment used when forming saw cuts in structural fabric material			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 16: Preparing and

Inspecting Substrates
Prior to Laying Screed
Floors in the Workplace

Level: 2

Unit type: Mandatory in Pathway 7

Guided learning hours: 43

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing and inspecting substrates prior to laying screed floors in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	Learning outcomes		essment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when preparing and inspecting substrates prior to laying screed floors	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations and official guidance			

Learning outcomes		Asso	essment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when preparing and inspecting	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	substrates prior to laying screed floors	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asso	essment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing and inspecting substrates prior to laying screed floors			
	preparing and inspecting substrates prior to laying screed	3.2	Demonstrate compliance with given information and relevant legislation when preparing and inspecting substrates prior to laying screed floors in relation to:			
	floors		safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing and inspecting substrates prior to laying screed floors, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Ass	essment criteria	Evidence type	Portfolio reference	Date
4	Select the required	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quantity and quality of resources for the	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	methods of work to prepare and		 primers/bonding agents, repair compounds, reinforcement and damp proof membrane (DPM) 			
	inspect substrates prior		lines, pegs, levels and location marking equipment			
	to laying screed floors		• joints			
			insulation			
			 hand tools, portable power tools, plant, machinery and ancillary equipment 			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, volume, length, area and wastage associated with the method/procedure to prepare and inspect substrates prior to laying screed floors			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	the work and surrounding	5.2	Minimise damage and maintain a clean work space			
	area when	5.3	Dispose of waste in accordance with current legislation			
	preparing and inspecting substrates prior to laying screed floors	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	work within the	6.1	Demonstrate completion of the work within the allocated time			
		Ilocated time /hen preparing nd inspecting	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
			types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
g ii f s t f	Comply with the given contract information to prepare and inspect substrates prior to laying screed floors to the required specification	7.1 7.2 7.3	Demonstrate the following work skills when preparing and inspecting substrates prior to laying screed floors: • assessing, measuring, marking out, cleaning, breaking out, preparing, forming, compacting, chasing, priming, mixing, laying, spreading, levelling, repairing, curing, protecting and inspecting Use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment Prepare and inspect three of the following substrates to given working instructions prior to laying screed floors: • cementitious substrates • insulated areas • membranes • areas with heating systems			
			ducted areas			

Learning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		assess condition of existing substrates			
		locate and protect services (water, gas, electric and waste)			
		prepare and protect service penetrations			
		break out defective areas			
		 prepare substrates prior to laying screed including: cementitious, insulated areas, membranes, areas with heating systems and areas with ducting 			
		prepare substrates by hand and mechanical methods			
		work around, in close proximity with, plant and machinery			
		direct and guide plant and machinery			
		remove contaminants			
		work to lines, levels, falls and gradients			
		 locate and form joints and edges, expansion, contraction and crack inducement 			
		mix repair compounds			
		install insulation			
		consider and check ambient conditions			
		protect and cure repaired areas			
		test surfaces by tensile strength tests, rebound hammer, pull off method			
		meet the agreed quality criteria			

Learning outcomes		Ass	essment criteria	Evidence type	Portfolio reference	Date
			monitor and control exposure to vibration			
			record and report			
			recognise and determine when specific skills and knowledge are required and report accordingly			
			use hand tools, portable power tools and dust extraction equipment			
		7.6	Describe the needs of other occupations and how to effectively communicate within a team when preparing and inspecting substrates prior to laying screed floors			
		7.7	Describe how to maintain the tools, plant, machinery and equipment used when preparing and inspecting substrates prior to laying screed floors			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 17: Laying Screed Floors in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 7

Guided learning hours: 60

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in laying screed floors in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when laying screed floors	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	2 Know how to comply with relevant legislation and official guidance when laying screed floors	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when laying screed floors			
	laying screed floors	3.2	Demonstrate compliance with given information and relevant legislation when laying screed floors in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to laying screed floors, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	lay screed floors		battens, reinforcement and drainage accessories			
			movement and construction joints			
			 bonding agents, sand, cement, additives, aggregates, colouring agents, membranes 			
			flowable screeds			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to lay screed floors			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when laying screed	5.3	Dispose of waste in accordance with current legislation			
	floors	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work within the allocated time when laying screed floors	6.1	Demonstrate completion of the work within the allocated time			
		6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	Serced Hoors		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			
7	Comply with the	7.1	Demonstrate the following work skills when laying screed floors:			
	given contract information to lay screed floors to the required		 measuring, marking out, locating, securing, forming, fixing, mixing, transporting, laying, testing, compacting, protecting and curing 			
	specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Lay screeds to floors and stairs to given working instructions using sand and cementitious screeds or flowable screeds			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		set out for line and level			
		 locate and protect cast-in services (heating, water, gas, electric and waste) 			
		prepare and protect service penetrations			
		 position and secure reinforcement, spacers and fixings 			
		form drainage inlets, drainage channels and outlets			
		 form joints, movement (expansion), anti-crack applicable to bay sizes 			
		 inspect prepared substrate to include cleanliness, testing and application of primers and damp proof membranes (DPM) 			
		check and monitor ambient conditions			
		mix screeds using paddle, spiral and forced action mixer			
		 transport screed material using mechanical (pumps, bulk bags by lifting equipment) and by hand (shovelled, barrowed) 			
		working with and around plant and machinery			
		test screed mix for consistency			
		prepare samples for testing			
		 lay and compact screed (vibrating screed beam and rollers) to floors, doors and around fixings to specified thickness, level and finish 			
		monitor and control exposure to vibration			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
			protect and cure screed			
			recognise and determine when specific skills and knowledge are required and report accordingly			
			meet agreed quality criteria			
			record and report			
			use hand tools, portable power tools and ancillary equipment			
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when laying screed floors			
		7.6	Describe how to maintain the tools and equipment used when laying screed floors			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 18: Laying Resin Floors in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 8

Guided learning hours: 53

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in laying resin floors in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
1	Interpret the given information relating to the work and resources when laying resin floors	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when laying resin floors	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when laying resin floors			
	laying resin floors	3.2	Demonstrate compliance with given information and relevant legislation when laying resin floors in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to laying resin floors, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	lay resin floors		primers, seals, damp-proof membranes (DPM)			
			construction and movement joints			
			 resin screed, resin self-smoothing, flow applied and resin coatings, multi-layer high build and heavy duty 			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area and wastage associated with the method/procedure to lay resin floors			

Lea	Learning outcomes		sment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when laying resin	5.3	Dispose of waste in accordance with current legislation			
	floors	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when laying resin floors	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	Tesm meers		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
7	Comply with the given contract information to lay resin floors to the required specification	7.1	 Demonstrate the following work skills when laying resin floors: measuring, marking out, forming, preparing, mixing, applying, finishing, curing and protecting 			
		7.2	Use and maintain hand tools, portable power tools, paddle, spiral, and forced action mixer and ancillary equipment			
		7.3	Lay resin floors to given working instructions using one of the following:			
			 resin coatings: to include any two from floor seals, floor coatings or high build floor coatings 			
			 resin self-smoothing: to include any two from multi-layer flooring, flow applied flooring or heavy duty flowable flooring 			
			 resin screeds: to include resin screeds and heavy duty screed flooring 			

Lea	rning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			set out floor to receive resins			
			position and secure construction and movement joints			
			 inspect prepared substrates to include applied primers and damp proof membranes (DPM) 			
			mix and apply resin floor finishes for coatings, self-smoothing and screeds, to specified finish			
			lay resin around service penetrations			
			protect and cure finished floor			
			consider and check ambient conditions			
			 recognise and determine when specific skills and knowledge are required and report accordingly 			
			meet agreed quality criteria			
			record and report			
			use hand tools, portable power tools and equipment			
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when laying resin floors			
		7.6	Describe how to maintain the tools and equipment used when laying resin floors			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 19: Repairing, Preparing

and Inspecting
Substrates Prior to
Laying Resin Floors in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 8

Guided learning hours: 43

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in repairing, preparing and inspecting substrates prior to laying resin floors in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Asse	essment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when repairing, preparing and inspecting substrates prior to laying resin floors	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, current regulations and official guidance 			

Learning outcomes				Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when repairing, preparing and	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	rning outcomes	Asse	essment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when repairing,	ealthy working ractices when	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when repairing, preparing and inspecting substrates prior to laying resin floors			
	preparing and inspecting substrates prior to laying resin floors	3.2	Demonstrate compliance with given information and relevant legislation when repairing, preparing and inspecting substrates prior to laying resin floors in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to repairing, preparing and inspecting substrates prior to laying resin floors, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Learning outcomes		Asse	essment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	methods of work to repair, prepare and inspect substrates prior to laying resin floors	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: • primers/bonding agents, repair compounds, reinforcement and damp proof membrane (DPM), curing agents • joints • hand tools, portable power tools, plant, machinery and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to repair, prepare and inspect substrates prior to laying resin floors			

Lea	arning outcomes	Asse	essment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when repairing,	5.3	Dispose of waste in accordance with current legislation			
	preparing and inspecting substrates prior to laying resin floors	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
	laying resin floors	5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when repairing, preparing and inspecting substrates prior to laying resin floors	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: • types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Lea	arning outcomes	Asso	essment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to repair, prepare and inspect substrates prior to laying resin	7.1	 Demonstrate the following work skills when repairing, preparing and inspecting substrates prior to laying resin floors: assessing, measuring, marking out, cleaning, breaking out, removing, preparing, forming, chasing, priming, mixing, laying, compacting, levelling, repairing, curing, protecting and inspecting 			
	, , ,	7.2	Use and maintain hand tools, portable power tools, plant, machinery and ancillary equipment			
	specification	7.3	Repair, prepare, using planers and surface grinders, and inspect substrates to given working instructions prior to laying resin floors			

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
	7.4 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
	assess condition of existing substrates			
	locate and protect services (water, gas, electric and waste)			
	prepare and protect service penetrations			
	 prepare substrates, new concrete, old concrete, fine concrete screed and overlays on existing surfaces prior to laying resin 			
	break out defective areas			
	work around, in close proximity with, plant and machinery			
	direct and guide plant and machinery			
	install, form and protect perimeter prior to repair			
	remove laitance and dust			
	remove contamination			
	abrade surfaces by grinding, planing and shot blasting			
	prepare edges			
	monitor and control exposure to vibration			
	work to lines, levels, falls and gradients			
	consider and check ambient conditions			
	mix, apply, protect and cure repaired areas			
	 locate and prepare for the formation of movement, expansion, induced, toe-in, transition and floor-to-wall joints 			
	test surfaces for adhesion by pull off method			

Le	arning outcomes	Asse	essment criteria	Evidence type	Portfolio reference	Date
			test surfaces for moisture using a moisture meter			
			meet the agreed quality criteria			
			recognise and determine when specialist skills and knowledge are required and report accordingly			
			record and report			
			use hand tools, portable power tools and dust extraction equipment			
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when repairing, preparing and inspecting substrates prior to laying resin floors			
		7.6	Describe how to maintain the tools and equipment used when repairing, preparing and inspecting substrates prior to laying resin floors			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 20: Preparing Areas for

Concrete Flooring in

the Workplace

Level: 2

Unit type: Mandatory in Pathways 9, 10 &

13

Guided learning hours: 50

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing areas for concrete flooring in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	work and resources when preparing areas for concrete	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	flooring	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when preparing areas for concrete flooring	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date	
3	Maintain safe and healthy working practices when preparing areas for	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing areas for concrete flooring				
	concrete flooring	3.2	Demonstrate compliance with given information and relevant legislation when preparing areas for concrete flooring in relation to:				
			safe handling of materials				
			safe use and storage of materials, tools and equipment				
				specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing areas for concrete flooring, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:				
			collective protective measures				
			personal protective equipment (PPE)				
			respiratory protective equipment (RPE)				
			local exhaust ventilation (LEV)				
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions				
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities				

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	prepare areas for		formwork, reinforcement, dowels, membranes, joint formers			
	concrete flooring		concrete ancillaries (spacers, tying wires)			
			fill materials and blinding (sand and concrete)			
			 hand tools, portable power tools, plant, machinery and ancillary equipment 			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to prepare areas for concrete flooring			

Learning outcomes		Asses	Assessment criteria		Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when preparing	5.3	Dispose of waste in accordance with current legislation			
	areas for concrete flooring	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when preparing areas for	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	concrete flooring		types of progress charts, timetables and estimated times			
			 organisational procedures for reporting circumstances which will affect the work programme 			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
7	Comply with the given contract	7.1	Demonstrate the following work skills when preparing areas for concrete flooring:			
l d	information to prepare areas for concrete flooring to the required specification		 measuring, marking out, trimming, inspecting, compacting, positioning, aligning, levelling, fixing, cutting, installing, locating, securing and protecting 			
		ecification 7.2	Use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment			
		7.3	Prepare areas to lay concrete floors to given working instructions relating to three of the following:			
			substrate preparation			
			timber formwork erection			
			proprietary formwork erection			
			reinforcement installation			
			membranes installation			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
			prepare ground bearing and suspended floor areas			
			 locate and protect services (water, gas, electric and waste) including overhead utilities 			
			protect existing structures			
			work around, in close proximity with, plant and machinery			
			direct and guide plant and machinery			
			inspect and test formation			
			determine finish floor levels			
			spread, trim and compact sub-base to line and level			
			measure and confirm sub-base levels			
			inspect and test area to be prepared			
			 position and fix timber and proprietary formwork to line and level including joint systems, isolation details, box-outs and thresholds 			
			form falls and gradients			
			cut joint, install and seal membranes			
			preparation of existing construction joints			
			locate and secure joints and void formers			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		 cut, locate and secure reinforcement and dowels and debonding sleeves meet agreed quality criteria protect prepared area record and report recognise and determine when specific skills and knowledge are required and report accordingly use hand tools, portable power tools, machinery and equipment work at height 			
	7.5	Describe the needs of other occupations and how to effectively communicate within a team when preparing areas for concrete flooring			
	7.6	Describe how to maintain the tools and equipment used when preparing areas for concrete flooring			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 21: Placing in situ concrete

flooring in the

workplace

Level: 2

Unit type: Mandatory in Pathway 9

Guided learning hours: 47

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in placement of in situ concrete flooring in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when placing in situ concrete flooring	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		when placing in	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when placing in situ concrete flooring	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	concrete mooning	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	Learning outcomes As		g outcomes Assessment criteria		Portfolio reference	Date
3	Maintain safe and healthy working practices when placing in situ	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when placing in situ concrete flooring			
	concrete flooring	3.2	Demonstrate compliance with given information and relevant legislation when placing in situ concrete flooring in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to placing in situ concrete flooring, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	Learning outcomes		ning outcomes Assessment criteria		Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	place in situ concrete flooring		 structural concrete, construction joint materials, formwork, membranes, reinforcement and embedments 			
			testing equipment			
			hand tools, portable power tools, plant, machinery and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to place in situ concrete flooring			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when placing in	5.3	Dispose of waste in accordance with current legislation			
	situ concrete flooring	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when placing in situ concrete flooring	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: • types of progress charts, timetables and estimated times			
	nooring		 organisational procedures for reporting circumstances which will affect the work programme 			

Lea	rning outcomes	es Assessment criteria		Evidence type	Portfolio reference	Date	
7	7 Comply with the given contract information to place in situ concrete flooring to the required specification	7.1	 Demonstrate the following work skills when placing in situ concrete flooring: measuring, marking out, inspecting, receiving, handling, placing, spreading, levelling, vibrating, compacting, testing and protecting 				
		the required	7.2	Use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment			
		7.3	Place and lay concrete for floors to given working instructions using three of the following placement methods:				
			• chute				
			elephant's trunk				
			• skip				
			• pump				
			monorail				
			manually				

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
		inspect the prepared area prior to placement			
		check line, level and suitability of formwork retaining structures and other temporary work for the concrete pour			
		 inspect joints, installed reinforcements and embedments, underfloor heating, ducting, pipework, holding down bolts 			
		check and monitor ambient conditions			
		receive, handle and test concrete			
		test integrated reinforcement, fibre, plastic, metal			
		 place concrete for floors by chute, elephant's trunk, skip, pump, monorail and manually 			
		level, vibrate and compact concrete			
		screed concrete to finished level			
		cure and protect concrete			
		record and report			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when placing in situ concrete flooring			
		7.6	Describe how to maintain the tools and equipment used when placing in situ concrete flooring			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 22: Applying Surface

Finishes to Concrete

Flooring in the

Workplace

Level: 2

Unit type: Mandatory in Pathway 10

Guided learning hours: 47

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in applying surface finishes to concrete flooring in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
1	Interpret the given information relating to the work and resources when applying surface finishes to	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	concrete flooring	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations 			

Learning outcomes				Evidence type	Portfolio reference	Date
and official guidance when	comply with relevant legislation and official guidance when applying surface	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Learning outcomes		rning outcomes Assessment criteria		Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when applying surface	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when applying surface finishes to concrete flooring			
	finishes to concrete flooring	3.2	Demonstrate compliance with given information and relevant legislation when applying surface finishes to concrete flooring in relation to:			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to applying surface finishes to concrete flooring, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to apply surface	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: • structural concrete			
	finishes to concrete		consumables, curing agents, blades			
	flooring		 pedestrian and ride-on power floats, tamping bars, rollers and vibrating screed beams 			
			hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to apply surface finishes to concrete flooring			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when applying	5.3	Dispose of waste in accordance with current legislation			
	surface finishes to concrete flooring	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when applying surface finishes to	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	concrete flooring		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract	contract	Demonstrate the following work skills when applying surface finishes to concrete flooring:			
	information to apply surface		measuring, finishing, curing and protecting			
	finishes to concrete flooring to the	7.2	Use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment			
	required specification	7.3	Apply finishes to concrete flooring to given working instructions by three of the following:			
			• tamped			
			• brushed			
			hand-float			
			pedestrian power float			
			ride-on power float			
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			 set up, carry out pre-start and post stop checks and operate pedestrian power float or ride-on power float or other finishing equipment (tamping bars, rollers and vibrating screed beams) 			
			identify and report defects			
			achieve surface finishes to concrete: tamped, brushed, hand-float, pedestrian power float, ride-on power float			
			cure and protect			
			record and report			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
			recognise and determine when specific skills and knowledge are required and report accordingly			
			use hand tools, portable power tools, plant and machinery and ancillary equipment			
			work at height			
			use of access equipment			
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when applying surface finishes to concrete flooring			
		7.6	Describe how to maintain the tools and equipment used when applying surface finishes to concrete flooring			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 23: Preparing and

Operating Ride-on Topping Spreaders to Distribute Materials in

the Workplace

Level: 2

Unit type: Optional in Pathway 11

Guided learning hours: 100

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing and operating ride-on topping spreaders to distribute materials in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	preparation and use of ride-on topping spreaders	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	to carry out distribution operations	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of ride-on topping spreaders for distribution work 			
2	Organise with	2.1	Organise the work according to given information or instructions			
	others the sequence and	2.2	Describe how to communicate ideas between team members			
	operation in which distribution operations using ride-on topping spreaders are to be carried out	2.3	Organise and communicate with team members and other associated occupations			
		2.4	Describe how to organise resources prior to and during distribution operations using ride-on topping spreaders			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Know how to comply with relevant legislation and official guidance when carrying out distribution	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	operations using ride-on topping spreaders	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Maintain safe and healthy working practices when preparing for and	4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during distribution operations			
	carrying out distribution operations using ride-on topping	4.2	Demonstrate compliance with given information and relevant legislation when carrying out distribution operations using ride-on topping spreaders in relation to two or more of the following:			
	spreaders		safe use and storage of plant or machinery			
			safe use and storage of tools and equipment			
			specific risks to health			
		by the principles topping spreade	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to ride-on topping spreader use, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions			
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Request and select the required quantity and quality of resources to prepare for and carry out	5.1	Request and select resources associated with ride-on topping spreaders in relation to consumables, materials, tools, ancillary equipment and/or accessories			
		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:			
	distribution		consumables, lubricants and fuels			
	operations using ride-on topping		attachments, distribution aids			
	spreaders		hand tools, ancillary equipment and accessories			
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		5.5	Describe any potential hazards associated with the resources and methods of work			
		5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out distribution operations using ride-on topping spreaders			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
6	Minimise the risk of damage to the	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	6.2	Prevent damage and maintain a clean work space			
	when preparing to	6.3	Dispose of waste in accordance with current legislation			
	and distributing materials	6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
7	Complete the work	7.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when preparing to and distributing materials	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:			
			 types of progress charts, timetables and estimated times organisational procedures for reporting circumstances which will affect the work programme 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
8	Comply with the given contract information to distribute materials using ride-on	8.1	Demonstrate the following work skills when preparing for and distributing materials using ride-on topping spreaders: • checking, adjusting, communicating, manoeuvring, positioning, distributing and compacting			
	topping spreaders	8.2	Use and maintain hand tools, ancillary equipment and/or accessories			
	to the required specification	8.3	Prepare to, position, set up and operate ride-on topping spreaders to distribute a variety of materials, in a variety of locations, to given working instructions			
		8.4	Shut down and secure ride-on topping spreader			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:			
		 identify the characteristics of the ride-on topping spreader used for distribution operations 			
		carry out function checks for the distribution work			
		identify the area for the distribution work			
		prepare, set up and adjust for operational requirements			
		 carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area 			
		confirm material characteristics			
		distribute materials in laying patterns			
		identify geological, environmental and material changes and report			
		check to avoid damage to structures and utilities service apparatus			
		recognise and determine when specific skills and knowledge are required and report accordingly			
		complete laying and distribution work			
		be on the public highway			
		shut down and secure ride-on topping spreader			
		use hand tools, ancillary equipment and accessories			

L	earning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		8.6	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out distribution operations			
		8.7	Describe how to maintain the plant and machinery, hand tools and ancillary equipment used to distribute materials			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 24: Preparing and

Operating Ride-on Laser Screeders to Level Concrete in the

Workplace

Level: 2

Unit type: Optional in Pathway 11

Guided learning hours: 133

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in preparing and operating ride-on laser screeders to level concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

information		Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	preparation and use of ride-on laser screeders to carry	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	out concrete levelling operations	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of ride-on laser screeders for concrete levelling operations			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Organise with	2.1	Organise the work according to given information or instructions			
	others the sequence and	2.2	Describe how to communicate ideas between team members			
	operation in which concrete levelling	2.3	Organise and communicate with team members and other associated occupations			
	operations using ride-on laser screeders are to be carried out	2.4	Describe how to organise resources prior to and during concrete levelling operations using ride-on laser screeders			
3	Know how to comply with relevant legislation and official guidance when carrying out concrete levelling operations using ride-on laser screeders	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Maintain safe and healthy working practices when preparing for and	4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during concrete levelling operations			
	carrying out concrete levelling operations using ride-on laser	4.2	Demonstrate compliance with given information and relevant legislation when carrying out concrete levelling operations using rideon laser screeders in relation to two or more of the following:			
	screeders		safe use and storage of plant or machinery			
			safe use and storage of tools and equipment			
			specific risks to health			
		4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to ride-on laser screeder use, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions			
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

5 Request and select the required quantity and		Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	· ·	5.1	Request and select resources associated with ride-on laser screeders in relation to consumables, materials, tools, ancillary equipment and/or accessories			
		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:			
			consumables, lubricants and fuels			
			attachments and laying aids			
			hand tools, ancillary equipment and accessories			
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		5.5	Describe any potential hazards associated with the resources and methods of work			
		5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out concrete levelling operations using ride-on laser screeders			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
6	Minimise the risk of damage to the	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	6.2	Prevent damage and maintain a clean work space			
	when preparing to	6.3	Dispose of waste in accordance with current legislation			
	and levelling concrete	6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
7	Complete the work	7.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when preparing to and	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:			
	levelling concrete		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			
8	Comply with the given contract	8.1	Demonstrate the following work skills when preparing for and levelling concrete using ride-on laser screeders:			
	information to level concrete using ride-on laser		 checking, adjusting, communicating, manoeuvring, positioning and levelling 			
	screeders to the	8.2	Use and maintain hand tools, ancillary equipment and/or accessories			
	required specification	8.3	Prepare to, position, set up and operate ride-on laser screeders to level concrete, in a variety of locations, to given working instructions			
		8.4	Shut down and secure ride-on laser screeders			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:			
		identify the characteristics of the ride-on laser screeder used for concrete levelling operations			
		carry out function checks for the concrete levelling work			
		identify the area for the concrete levelling work			
		prepare, set up and adjust for operational requirements			
		 carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area 			
		confirm material characteristics			
		level concrete in patterns			
		 identify geological, environmental and material changes and report 			
		 check to avoid damage to structures and utilities service apparatus 			
		recognise and determine when specific skills and knowledge are required and report accordingly			
		complete concrete levelling work			
		be on the public highway			
		shut down and secure ride-on laser screeder			
		use hand tools, ancillary equipment and accessories			

L	earning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		8.6	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out concrete levelling operations			
		8.7	Describe how to maintain the plant and machinery, hand tools and ancillary equipment used to level concrete			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 25: Operating Plant or

Machinery to Prepare,

Profile and Finish

Substrates for

Specified Materials in

the Workplace

Level: 2

Unit type: Mandatory in Pathway 12

Guided learning hours: 63

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in operating plant or machinery to prepare, profile and finish substrates for specified materials in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
	relating to the work and resources when operating plant or machinery to prepare, profile and finish substrates for specified materials 1.2 1.3	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and official guidance associated with background surface preparation, profiling and finishing 			

Le	Learning outcomes A		ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when operating plant or machinery to	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
	prepare, profile and finish substrates for	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
	specified materials	2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when operating plant or	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing, profiling and finishing substrates			
	machinery to prepare, profile and finish substrates for	3.2	Demonstrate compliance with given information and relevant legislation when operating plant or machinery to prepare, profile and finish substrates for specified materials in relation to:			
	specified materials		safe handling of materials			
			safe use and storage of materials, tools and equipment			
			safe operation and storage of plant and machinery			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to operating plant or machinery to prepare, profile and finish substrates for specified materials, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools, equipment, ancillaries and consumables			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	operate plant or machinery to	·	• consumables			
	prepare, profile		 hand tools, portable power tools, plant, machinery and ancillary equipment 			
	substrates for specified materials	4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length and area associated with the method/procedure to prepare, profile and finish substrates			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when operating	5.3	Dispose of waste in accordance with current legislation			
	plant or machinery to prepare, profile and finish substrates for	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
	specified materials	5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when operating plant or	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	machinery to prepare, profile and finish substrates for specified materials		 types of progress charts, timetables and estimated times organisational procedures for reporting circumstances which will affect the work programme 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to	7.1	Demonstrate the following work skills when operating plant or machinery to prepare, profile and finish substrates for specified materials:			
	operate plant or machinery to prepare, profile		measuring, marking out, locating, cleaning, breaking out, chasing, checking, setting up, selecting, operating and closing down			
	and finish substrates for	7.2	Use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment			
	specified materials to the required specification	7.3	Prepare or profile or finish substrates to given working instructions by operating four of the following ride-on and/or pedestrian guided items of plant or machinery:			
			grinder			
			planing machine			
			• sander			
			• polisher			
			scabbler			
			tile stripper			
			captive or enclosed shotblast machine			
			vacuum machine			
			filtration systems			

Learning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
		check and set up plant and machinery for operation			
		complete pre-start and post stop checks			
		assess condition of substrate			
		locate and protect services (water, gas, electric and waste)			
		repair damaged and weak areas			
		chase out joints			
		 profile surfaces by grinding (wet and dry), planing, blasting, sanding and stripping 			
		 remove vinyl, carpet, tiles, paint, adhesive, resin, screeds, wood and wood-based products and self-levelling compounds 			
		• cut grooves			
		prepare edges			
		remove contaminants			
		finish surfaces: retextured, anti-slip, smooth and reducing			
		clean and clear surfaces			
		polish surfaces			
		monitor and control exposure to vibration			
		record and report work details			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
			recognise and determine when specialist skills and knowledge are required and report accordingly			
			 use hand tools, portable power tools, plant and machinery and ancillary equipment 			
			work at height			
			use of access equipment			
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when operating plant or machinery to prepare profile and finish substrates for specified materials			
		7.6	Describe how to maintain the tools and equipment used when operating plant or machinery to prepare, profile and finish substrates for specified materials			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 26: Applying Coatings as

Structure Protection in

the Workplace

Level: 2

Unit type: Additional in Pathway 1

Guided learning hours: 43

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in applying coatings as structure protection in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance the Construction Skills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	arning outcomes	Asses	sment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information	1.1	Interpret and extract relevant information from drawings, schedules, method statements, risk assessments and manufacturers' information			
	relating to the work and resources when applying	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	coatings as structure protection	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations governing buildings 			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	comply with relevant legislation and official guidance when applying coatings as structure	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when applying coatings	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when applying coatings as structure protection			
	as structure protection	3.2	Demonstrate compliance with given information and relevant legislation when applying coatings as structure protection in relation to three of the following:			
			safe use of access equipment			
			safe handling of materials			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to applying coatings as structure protection, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	apply coatings as		thinners, primers and coatings			
	structure protection		 hand tools, portable power tools, testing equipment and ancillary equipment 			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, coverage, length, area, volume and wastage associated with the method/procedure to apply coatings as structure protection			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
dar wor sur whe coa stru	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when applying	5.3	Dispose of waste in accordance with current legislation			
	coatings as structure protection	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when applying coatings as	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	structure		types of progress charts, timetables and estimated times			
	protection		organisational procedures for reporting circumstances which will affect the work programme			

7 Comply with the given contract information to		Asses	ssment criteria	Evidence type	Portfolio reference	Date
7		7.1	Demonstrate the following work skills when applying coatings as structure protection:			
	apply coatings as		 measuring, marking out, locating, preparing, mixing, applying, testing and curing 			
	protection to the required	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	specification	7.3	Prepare substrates and apply coatings to given working instructions to:			
			clean and prepare surface to be coated			
			check and confirm condition of substrate and environment			
			mix and apply coatings			
			test applied coatings			
			cure and protect			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
	7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
		locate, measure and mark out the area to be coated			
		locate and protect services (water, gas, electric and waste)			
		select the materials to be applied			
		prepare the substrate			
		measure, record and act on environmental conditions			
		mix and apply coatings			
		test applied thickness			
		measure adhesion of the coating (pull off test)			
		cure and protect applied coatings			
		clean equipment			
		handle, store and dispose of hazardous waste			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		use hand tools, portable power tools and equipment			
		work at height			
		use access equipment			

L	earning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.5	Describe the needs of other occupations and how to effectively communicate within a team when applying coatings as structure protection			
		7.6	Describe how to maintain the tools and equipment used when applying coatings as structure protection			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 27: Carrying Out Concrete

Bursting Operations in

the Workplace

Level: 2

Unit type: Additional in Pathways 4, 5 & 6

Guided learning hours: 53

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in carrying out concrete bursting operations in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	work and resources when carrying out concrete bursting operations	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information and current regulations 			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when carrying out concrete bursting	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when carrying out	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when carrying out concrete bursting operations			
	concrete bursting operations	3.2	Demonstrate compliance with given information and relevant legislation when carrying out concrete bursting operations in relation to two of the following:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to carrying out concrete bursting operations, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	carry out concrete		consumables			
	bursting operations		diamond and rotary drilling rigs			
			drills, bursting equipment, bits, bolt croppers, connectors, power units, fixings and accessories			
			chemical bursting components			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length area and any volume associated with the method/procedure to carry out concrete bursting operations			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when carrying out	5.3	Dispose of waste in accordance with current legislation			
	concrete bursting operations	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when carrying out concrete	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	bursting operations		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	given contract information to carry out concrete	7.1	Demonstrate the following work skills when carrying out concrete bursting operations: • measuring, marking out, setting up, connecting, drilling and bursting			
	bursting operations to the required specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Carry out bursting in reinforced concrete to given working instructions relating to vertical and/or horizontal surfaces			
		7.4	Sort and remove rubble and materials resulting from concrete bursting operations			
		7.5	Measure and record work details on completion of concrete bursting operations			

Learning outcomes	Asse	ssment criteria	Evidence type	Portfolio reference	Date
	7.6	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
		complete pre-start and post stop checks on concrete bursting machines			
		set up, and operate drilling and bursting equipment (hydraulic, pneumatic and chemical)			
		locate and protect services (water, gas, electric and waste)			
		secure work with isolation cuts (separation lines)			
		drill concrete			
		deal with voids			
		 carry out bursting, including sequence and varying patterns (star bursting) 			
		cut reinforcement			
		segregate and remove rubble and materials			
		maintain records			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		 use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) 			
		work at height			
		use access equipment			

Le	earning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.7	Describe the needs of other occupations and how to effectively communicate within a team when carrying out concrete bursting operations			
		7.8	Describe how to maintain the tools and equipment used when carrying out concrete bursting operations			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 28: Carrying Out Concrete

Crushing and Breaking

Operations in the

Workplace

Level: 2

Unit type: Additional in Pathways 4, 5 & 6

Guided learning hours: 47

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in carrying out concrete crushing and breaking operations in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	work and resources when carrying out concrete crushing	en carrying out 1.2 Comply with information and/or instructions derived from the carrying out assessments and method statements	Comply with information and/or instructions derived from risk assessments and method statements			
	and breaking operations	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when carrying out concrete crushing	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: • in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when carrying out	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when carrying out concrete crushing and breaking operations			
	concrete crushing and breaking operations	3.2	Demonstrate compliance with given information and relevant legislation when carrying out concrete crushing and breaking operations in relation to two of the following:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to carrying out concrete crushing and breaking operations, and the types, purpose and limitations of each type, the work situation and general work environment in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
res me car cru	quality of resources for the methods of work to carry out concrete crushing and breaking	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: • jaws, breakers, bolt croppers, crushers and breakers, power source, control panels and fittings • remote/radio control and umbilical cord control equipment			
	operations		hand tools, portable power tools and equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area and volume associated with the method/procedure to carry out concrete crushing and breaking operations			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
	when carrying out	5.3	Dispose of waste in accordance with current legislation			
	concrete crushing and breaking operations	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when carrying out concrete	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	crushing and		types of progress charts, timetables and estimated times			
	breaking operations		organisational procedures for reporting circumstances which will affect the work programme			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
7	Comply with the given contract information to	crushing and breaking operations: orresponding and breaking operations:				
	carry out concrete crushing and breaking		identifying, setting up, fitting, cutting, crushing, breaking,			
	operations to the required specification	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
		7.3	Carry out crushing and breaking of concrete structures to given working instructions using one of the following:			
			portable hand crusher			
		·	remote/radio control crusher and breaker			
			umbilical cord control crusher and breaker			
		7.4	Sort and remove rubble and materials resulting from concrete crushing and breaking operations			
		7.5	Measure and record work details on completion of concrete crushing and breaking operations			

Learning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
	7.6	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
		complete pre-start and post-stop checks on crushing and breaking machinery			
		set up and operate crushing machinery and equipment			
		locate and protect services (water, gas, electric and waste)			
		crush and break concrete			
		cut reinforcement			
		segregate and dispose of crushed and broken materials			
		deal with voids			
		maintain records			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		 use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) 			
		work at height			
		use access equipment			
	7.7	Describe the needs of other occupations and how to effectively communicate within a team when carrying out concrete crushing and breaking operations			
	7.8	Describe how to maintain the tools and equipment used when carrying out concrete crushing and breaking operations			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 29: Carrying Out Wire

Sawing in the Workplace

Level: 2

Unit type: Additional in Pathways 4, 5 & 6

Guided learning hours: 53

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in carrying out wire sawing of concrete in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information			
	work and resources when carrying out wire sawing	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	Wile Sawiiig	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			 drawings, specifications, schedules, method statements, risk assessments, work instructions, electronic data, manufacturers' information, and current regulations 			

Learning outcomes		Asses	ssment criteria	Evidence type	Portfolio reference	Date
2	2 Know how to comply with relevant legislation and official guidance when carrying out wire sawing	2.1	 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting 			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			

Lea	Learning outcomes Asse		ssment criteria	Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when carrying out wire	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when carrying out wire sawing			
	sawing	3.2	Demonstrate compliance with given information and relevant legislation when carrying out wire sawing in relation to:			
			safe use of access equipment			
			safe use and storage of materials, tools and equipment			
			specific risks to health			
			provision of lighting and ventilation			
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to carrying out wire sawing, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
			personal protective equipment (PPE)			
			respiratory protective equipment (RPE)			
			local exhaust ventilation (LEV)			
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
	Select the required quantity and	4.1	Select resources associated with own work in relation to materials, components, fixings, tools and equipment			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	carry out wire sawing		 drills, wire saws, bits, saw blades, power unit, connectors, fittings and accessories 			
			hand tools, portable power tools and ancillary equipment			
		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.5	Describe any potential hazards associated with the resources and methods of work			
		4.6	Describe how to calculate quantity, length, area and volume associated with the method/procedure to carry out wire sawing			
5	Minimise the risk of damage to the	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Minimise damage and maintain a clean work space			
whe	when carrying out	5.3	Dispose of waste in accordance with current legislation			
	wire sawing	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when carrying out wire sawing	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	out in a summy		types of progress charts, timetables and estimated times			
			organisational procedures for reporting circumstances which will affect the work programme			
7	Comply with the	7.1	Demonstrate the following work skills when carrying out wire sawing:			
	given contract information to carry out wire sawing to the required	offormation to The asuring, marking out, checking, identifying and recording sawing, disposing and recording the same as a sawing disposing and recording the sawing disposing the sawing disposing and recording the sawing disposing the sawing disposing the sawing disposing and recording the sawing disposing disposing disposing the sawing disposing	 measuring, marking out, checking, identifying, setting up, connecting, sawing, disposing and recording 			
		7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	specification	7.3	Carry out wire sawing of concrete/masonry structures using wire saw and drilling equipment to given working instructions			
		7.4	Sort and remove rubble resulting from wire sawing			
		7.5	Measure and record work details on completion of wire sawing			

Learning outcomes	ng outcomes Assessment criteria		Evidence type	Portfolio reference	Date
	7.6	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:			
		complete pre-start and post-stop checks on wire sawing machines			
		isolate work area			
		set up, guard and use wire saw			
		 locate and protect services (water, gas, electric and waste) 			
		drill starter holes or saw starting positions			
		thread and tension wire (push or pull)			
		twist, join and crimp wires			
		cut in sequence using wire saw			
		apply lubricant and coolant			
		deal with voids			
		segregate and remove rubble and materials			
		maintain records			
		 recognise and determine when specific skills and knowledge are required and report accordingly 			
		 use hand tools, portable power tools and equipment using different power sources (three phase, cordless, mains, fuel driven and generator linked) 			
		work at height			
		use access equipment			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.7	Describe the needs of other occupations and how to effectively communicate within a team when carrying out wire sawing			
		7.8	Describe how to maintain the tools and equipment used when carrying out wire sawing			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 30: Erecting and

Dismantling

Access/Working Platforms in the

Workplace

Level: 2

Unit type: Additional in Pathways 4, 5 & 6

Guided learning hours: 27

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in erecting and dismantling access/working platforms in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Learning outcomes and assessment criteria

To pass this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements the learner is expected to meet to achieve the unit.

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information	1.1	Interpret and extract information from specifications, method statements, risk assessments and manufacturers' information			
	relating to the work and resources when erecting and	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	dismantling access/working platforms	1.3	State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			specifications, current legislation, method statements, risk assessments and manufacturers' information			
2	comply with relevant legislation and official guidance when erecting and	2.1	Describe their responsibilities under current legislation and official guidance, whilst working:			
			 in the workplace, at height, in confined areas, with tools and equipment, with movement/storage of materials and by manual handling 			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	State what the accident reporting procedures are and who is responsible for making reports			

Learning outcomes		Asses	Assessment criteria		Portfolio reference	Date
3	Maintain safe working practices when erecting and dismantling access/working platforms	3.1	Use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when erecting and dismantling access/working platforms			
		3.2	Explain why, when and how personal protective equipment (PPE) should be used, relating to erecting and dismantling access/working platforms, and the types, purpose and limitations of each type			
		3.3	State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and quality of resources for the methods of work to erect and dismantle access/working platforms	4.1	Describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to: Iadders/crawler boards stepladders/platform steps trestles proprietary staging/podiums proprietary towers mobile scaffold towers protection equipment and notices tools and ancillary equipment			
		4.2	Select resources associated with own work in relation to materials, components, tools and equipment			
		4.3	State how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used			
		4.4	Outline potential hazards associated with the resources and method of work			
		4.5	Describe how to calculate quantity of equipment required associated with the method/procedure to erect and dismantle access equipment/working platforms			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
5	Minimise the risk of	5.1	Protect the work and its surrounding area from damage			
	damage to the work and	5.2	Minimise damage and maintain a clean work space			
	surrounding area when erecting and dismantling	5.3	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
	access/working platforms	5.4	Dispose of waste in accordance with legislation			
	μαιισττις	5.5	State why the disposal of waste should be carried out in relation to the work			
6	Complete the work within the allocated time when erecting and dismantling access/working platforms	6.1	Demonstrate completion of the work within the allocated time			
		6.2	State the purpose of the work programme and explain why deadlines should be kept in relation to: • organisational procedures for reporting circumstances which will affect the work programme			
7	Comply with the given contract information to erect and dismantle access/ working platforms to the required specification	7.1	Demonstrate the following work skills when erecting and dismantling access/working platforms: • moving, positioning/erecting, securing, checking, dismantling and removing			

Lea	rning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.2	Erect, dismantle and store two of the following access equipment to given access regulations:			
			ladders/crawler boards			
			stepladders/platform steps			
			proprietary towers			
			trestle platforms			
			mobile scaffold towers			
			proprietary staging/podiums			
		7.3	Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			provide protection to the work area			
			establish a base for equipment			
			 erect proprietary access equipment to manufacturer's instructions suitable for the work 			
			erect non-proprietary access equipment suitable for the work			
			place protective screens and notices			
			check/monitor equipment during the period of use			
			dismantle and store access equipment			
			use tools and equipment			
			work at height			

Le	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
		7.4	Safely use and store materials, hand tools and ancillary equipment			
		7.5	State the needs of other occupations and how to communicate within a team when erecting and dismantling access/working platforms			
		7.6	Describe how to maintain the tools and equipment used when erecting and dismantling access/working platforms			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 31: Applying Sealants

Mechanically in the

Workplace

Level: 3

Unit type: Additional in Pathways 4, 5 & 6

Guided learning hours: 40

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in applying sealants mechanically in the workplace within the relevant sector of industry.

Unit assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.

Learning outcomes and assessment criteria

To pass this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements the learner is expected to meet to achieve the unit.

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the work and resources when applying sealants mechanically	1.1	Interpret and extract information from of drawings, specifications, schedules, job sheets, method statements and manufacturers' information			
		1.2	Comply with information and/or instructions derived from risk assessments and method statement			
		1.3	State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings, specifications, schedules, job sheets, method statements and manufacturers' information			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
2	Know how to comply with relevant legislation and official guidance when applying sealants mechanically	2.1	Describe their responsibilities under current legislation and official guidance, whilst working:			
			 in the workplace, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting 			
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative			
		2.3	State what the accident reporting procedures are and who is responsible for making reports			
3	Maintain safe working practices when applying sealants mechanically	3.1	Use personal protective equipment (PPE) and access equipment/working platforms safely to carry out the activity in accordance with legislation and organisational requirements when applying sealants mechanically			
		3.2	Explain why and when personal protective equipment (PPE) should be used, relating to applying sealants mechanically, and the types, purpose and limitations of each type			
		3.3	State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
4	Select the required quantity and quality of resources for the methods of work to apply sealants mechanically	4.1	Describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to: • tapes • packings • primers • single and multi-part sealants • mechanical application equipment • hand and/or powered tools and equipment			
		4.2	Select resources associated with own work in relation to materials, components, tools, equipment, mechanical applicators and ancillary equipment			
		4.3	State how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used			
		4.4	Outline potential hazards associated with the resources and method of work			
		4.5	Describe how to calculate quantity, length and area associated with the method/procedure to apply sealants mechanically			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
5	Minimise the risk of damage to the work and	5.1	Protect the work and its surrounding area from damage			
		5.2	Minimise damage and maintain a clean work space			
	surrounding area when applying sealants	5.3	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
	mechanically	5.4	Dispose of waste in accordance with legislation			
		5.5	State why the disposal of waste should be carried out in relation to the work			
6	Complete the work	6.1	Demonstrate completion of the work within the allocated time			
	within the allocated time when applying sealants	6.2	State the purpose of the work programme and explain why deadlines should be kept in relation to:			
	mechanically		types of progress charts, timetables and estimated times			
			 organisational procedures for reporting circumstances which will affect the work programme 			

Lea	rning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
7	Comply with the given contract	7.1	Demonstrate the following work skills when applying sealants mechanically:			
	information to apply sealants mechanically to the		 measuring, preparing, brushing, cleaning, backing, applying, finishing and protecting 			
	required specification	7.2	Prepare and apply sealants mechanically to contractor's working instructions relating to one of the following:			
		• foreco • hards 7.3 Describe problems • seal of floor/o • use hards	concrete slabs			
			forecourts			
			hardstandings			
			Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			seal concrete slabs, forecourts and hard-standings, walls and floor/ceiling junctions			
			use hand tools, power tools, and equipment			
			use mechanical application equipment			
			work at height			
			use access equipment			

L	earning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
		7.4	Safely use and store hand tools, portable power tools, mechanical applicators and ancillary equipment			
		7.5	State the needs of other occupations and how to communicate within a team when applying sealants mechanically			
		7.6	Describe how to maintain the tools and equipment used when applying sealants mechanically			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

Unit 32: Jacking-up acoustic

floating floors in the

workplace

Level: 2

Unit type: Mandatory in Pathway 13

Guided learning hours: 20

Unit summary

Unit assessment requirements

This unit must be assessed in a work environment, in accordance with the ConstructionSkills Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Learning outcomes and assessment criteria

To pass this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements the learner is expected to meet to achieve the learning outcomes and the unit.

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
1	Interpret the given information relating to the	1.1	Interpret and extract relevant information from drawings, specifications, schedules method statements, risk assessments and manufacturers' information.			
	work and resources when jacking-up acoustic floating	1.2	Comply with information and/or instructions derived from risk assessments and method statements			
	floors	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented			
		1.4	Describe different types of information, their source and how they are interpreted in relation to:			
			drawings, specifications, schedules, method statement, risk assessments, manufacturers' information and current regulations associated with acoustic floating floors			

Lea	Learning outcomes		ssment criteria	Evidence type	Portfolio reference	Date
2	Describe different types of information, their source and how they are interpreted in relation to:	2.1	 Describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement and storage of materials and by manual handling and mechanical lifting. 			
	drawings, specifications, schedules, method statement, risk assessments, manufacturers' information and current regulations associated with acoustic floating floors	2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles.			
		2.3	Explain what the accident reporting procedures are and who is responsible for making reports			
		2.4	Describe the types of fire extinguishers available when jacking-up acoustic floating floors and describe how and when they are used			

Lea	arning outcomes	Assessment criteria		Evidence type	Portfolio reference	Date
3	Maintain safe and healthy working practices when jacking-up acoustic	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when jacking-up acoustic floating floors			
	floating floors	3.2	Demonstrate compliance with given information and relevant legislation jacking-up acoustic floating floors in relation to at least two of the following:			
		safe use of access equipment	safe use of access equipment			
			safe use, storage and handling of materials, tools and equipment			
	by the principles of prevention should be used, relating to jacking acoustic floating floors, and the types, purpose and limitations of		specific risks to health			
		3.3	Explain why and when health and safety control equipment, identified by the principles of prevention should be used, relating to jacking-up acoustic floating floors, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:			
			collective protective measures			
		local exhaust ventilation (LEV)				
			personal protective equipment (PPE)			
	respiratory protective	respiratory protective equipment (RPE)				
		3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions			
		3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.			

Lea	Learning outcomes		Assessment criteria		Portfolio reference	Date
4	Select the required quantity and	4.1	Select resources associated with own work in relation to_materials, components, fixings, tools, equipment and consumables			
	quality of resources for the methods of work to	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:			
	jack-up acoustic		jacks and springs			
	floating floors		reinforcement bar and mesh			
			consumables, polythene, mineral fibre insulation			
			fittings and fixings			
			hand tools, portable power tools and equipment			
		4.3	Describe how to confirm that the resources and materials conform to the specification.			
		4.4	Describe how the resources should be used correctly and how problems associated with the resources are reported			
		4.5	Explain why the organisational procedures have been developed and how they are used for the selection of required resources			
		4.6	Describe any potential hazards associated with the resources and methods of work			
		4.7	Describe how to calculate quantity, length, area and wastage associated with the method and procedure to jack-up acoustic floating floors			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Minimise the risk of damage to the		Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures			
	work and surrounding area	5.2	Maintain a clean work space			
	when jacking-up	5.3	Dispose of waste in accordance with current legislation			
	acoustic floating floors	5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions			
		5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance			
6	Complete the work within the allocated time when jacking-up acoustic floating	6.1	Demonstrate completion of the work within the allocated time			
		6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:			
	floors		types of productivity targets and time scales			
			how times are estimated			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
give infor	Comply with the given contract	7.1	Demonstrate the following work skills when jacking-up acoustic floating floors:			
	information to jack-up acoustic		measuring, locating, adjusting, levelling, checking and sealing			
	floating floors to the required	7.2	Use and maintain hand tools, portable power tools and ancillary equipment			
	specification.	7.3	jack up acoustic floating floors to given working instructions for at least one of the following			
			rubber systems			
			spring systems			
		7.4	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them to:			
			identify and follow the installation quality requirements			
			conform to agreed specification			
			confirm manufacturers installation criteria			
			 check resources for type, quantity and damage and report discrepancies 			
			identify, recognise and work to gridlines and datum marks			
			measure and locate jacks			
			adjust floor to height and check level			
			prepare and mix grout to seal jacking locations			
			recognise the characteristics of rubber and spring systems			
			recognise and determine when specialist skills and knowledge are required and report accordingly			

Lea	arning outcomes	Asses	ssment criteria	Evidence type	Portfolio reference	Date
			work with, around and in close proximity to plant and machinery			
			use hand tools, portable power tools and equipment			
			work at height			
			use access equipment			
		7.5	Describe the needs of other occupations and how to communicate effectively within a team when jacking-up acoustic floating floors			
		7.6	Describe how to maintain the tools and equipment used when jacking- up acoustic floating floors			

Learner name:	Date:
Learner signature:	Date:
Assessor signature:	Date:
Internal verifier signature:	Date:
(if sampled)	

12 Further information and useful publications

To get in touch with us visit our 'Contact us' pages:

- Edexcel, BTEC and Pearson Work Based Learning contact details: qualifications.pearson.com/en/support/contact-us.html
- books, software and online resources for UK schools and colleges: www.pearsonschoolsandfecolleges.co.uk

Key publications

- Adjustments for candidates with disabilities and learning difficulties, Access and Arrangements and Reasonable Adjustments, General and Vocational qualifications (Joint Council for Qualifications (JCQ))
- Supplementary guidance for reasonable adjustments and special consideration in vocational internally assessed units (Pearson)
- General and Vocational qualifications, Suspected Malpractice in Examination and Assessments: Policies and Procedures (JCQ)
- Equality Policy (Pearson)
- Recognition of Prior Learning Policy and Process (Pearson)
- UK Information Manual (Pearson)
- Pearson Edexcel NVQs, SVQs and competence-based qualifications Delivery Requirements and Quality Assurance Guidance (Pearson)

All of these publications are available on our website: qualifications.pearson.com

Further information and publications on the delivery and quality assurance of NVQ/Competence-based qualifications are available at our website on the Delivering BTEC pages. Our publications catalogue lists all the material available to support our qualifications. To access the catalogue and order publications, please go to the resources page of our website.

13 Professional development and training

Professional development and training

Pearson supports customers with training related to our qualifications. This support is available through a choice of training options offered on our website.

The support we offer focuses on a range of issues, such as:

- planning for the delivery of a new programme
- planning for assessment and grading
- developing effective assignments
- building your team and teamwork skills
- developing learner-centred learning and teaching approaches
- building in effective and efficient quality assurance systems.

The national programme of training we offer is on our website. You can request centre-based training through the website or you can contact one of our advisers in the Training from Pearson UK team via Customer Services to discuss your training needs.

Training and support for the lifetime of the qualifications

Training and networks: our training programme ranges from free introductory events through sector-specific opportunities to detailed training on all aspects of delivery, assignments and assessment. We also host some regional network events to allow you to share your experiences, ideas and best practice with colleagues in your region.

Regional support: our team of Regional Quality Managers, based around the country, are responsible for providing quality assurance support and guidance to anyone managing and delivering NVQs/Competence-based qualifications. The Regional Quality Managers can support you at all stages of the standard verification process as well as in finding resolutions of actions and recommendations as required.

To get in touch with our dedicated support teams please visit our website at: qualifications.pearson.com/en/support/contact-us.html

Online support: find the answers to your questions in *Knowledge Base*, a searchable database of FAQs and useful videos that we have put together with the help of our subject advisors to support you in your role. Whether you are a teacher, administrator, Assessment Associate (AA) or training provider, you will find answers to your questions. If you are unable to find the information you need please send us your query and our qualification or administrative experts will get back to you.

14 Contact us

To get in touch with us, please visit our 'Contact us' pages for Pearson Work Based Learning customers:

http://qualifications.pearson.com/en/support/support-for-you/work-based-learning/contact-us.html

Annexe A: Consolidated Assessment Strategy for Construction and the Built Environment

Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional National Vocational Qualifications (NVQs) and Scottish Vocational Qualifications (SVQs).

Introduction

This assessment strategy¹ provides principles and guidance to awarding organisations so the assessment of units within qualifications denoted as NVQs in the Regulated Qualification Framework (RQF) and SVQs in the Scottish Credit and Qualification Framework (SCQF) is valid, effective and consistent, and has credibility across the Construction and Built Environment sector. This is a consolidated ConstructionSkills Assessment Strategy covering construction and the built environment – craft, operative, supervisory, technical, managerial and professional NVQs and SVQs.

These principles are in addition to the requirements that awarding organisations must meet for the delivery of qualifications as required by the qualification regulators' documentation.

This consolidated assessment strategy provides the overarching principles as systems may vary from one awarding organisation to another. Awarding organisations must consistently put these principles into practice.

Appendix A provides guidance to help awarding organisations incorporate relevant parts of these principle requirements in their documentation.

Appendix B provides additional information on assessment guidance for awarding organisations relevant to specific NVQ or SVQ qualifications and units.

Appendix C provides guidance on the use of simulation; it is a SSC's responsibility to define the acceptability of evidence from simulation in the context of National Occupational Standards (NOS) and NVQs/SVQs. Simulation will only usually apply as a result of one or more of the listed constraints.

Appendix D provides guidance on Scottish Vocational Qualifications at SCQF Level 6 and related Industry Skills Tests.

Awarding organisations must make this Strategy and the appendices available to assessors, verifiers, candidates and assessment centres.

¹ Please note that there is now a separate Assessment Strategy for Construction and the Built Environment

⁻ Plant and Lifting Operations. This assessment strategy will also apply where plant or lifting units, sourced from the Plant Operations or Controlling Lifting Operations' suite of units, are used in other NVQs and SVQs

Principles

1 External quality control of assessment

- 1.1 Awarding organisations must use risk management for external quality control of assessment. They must evaluate all external verification reports and other data relating to assessment centres. Awarding organisations must address any risks relating to quality control, considering the sector assessment strategy requirements for:
 - workplace evidence
 - the use of simulation
 - the occupational competence of assessors and verifiers.
- 1.2 The monitoring and standardisation of assessment decisions must be achieved by robust and strong internal and external verification systems that meet the requirements of the qualification regulators' documentation.
- 1.3 Awarding organisations must be members of the sector's Built Environment Awarding Body Forum. Members will be expected to provide feedback on National Occupational Standards (NOS), NVQs or SVQs, including aspects informing incremental change.
- 1.4 The Forum will, in respect of this strategy:
 - build on the good relationships with awarding organisations
 - provide opportunities to identify and address particular issues of external quality control
 - contribute to improving quality and consistency
 - support awarding organisations to monitor assessment centres' performance to identify areas and levels of risk
 - provide information and statistics about take-up and completion, as well as trends and developments that can be used by ConstructionSkills and awarding organisations to identify any problem areas and agree remedial action
 - discuss matters concerning quality assurance, as well as providing the opportunity to identify issues arising from implementation of NOS and related vocational qualifications
 - inform the continuous improvement of NOS, and awards derived from them
 - identify and share best practices to build a whole industry approach to pursue excellence in education and work-based learning and assessment process to achieve competence.
- 1.5 Awarding organisations and their partners, assessment centres, verifiers and assessors must maintain robust and transparent operational arrangements. They must preserve independence in assessment, certification and quality assurance processes. Awarding organisations must ensure clear separation of their NVQ/SVQ assessment responsibilities from their industry, training, membership, certification, accreditation and commercial interests and resolve any conflicts of interest.
- 1.6 Where e-assessment is used, it must meet the requirements of the qualification regulators' documentation.

2 Aspects to be assessed through performance in the workplace

- 2.1 Direct evidence produced through normal performance in the workplace is the primary source for meeting the requirements. This includes naturally occurring documentary evidence (hard copy and electronic), direct observation of activities and witness testimony as relevant. ConstructionSkills' National Working Groups will specify any exceptions to this position (see section 3).
- 2.2 Workplace evidence must be supported by the required evidence of knowledge and understanding. This evidence may be identified by:
 - questioning the candidate
 - recognised industry education and training programme assessment or professional interview assessment that has been matched to NOS requirements
 - performance evidence.
- 2.3 A holistic approach towards the collection of evidence should be encouraged. The focus should be on assessing activities generated by the whole work experience rather than focusing on specific tasks. This would show how evidence requirements could be met across the qualification to make the most efficient use of evidence. *Appendix A* suggests standard evidence notes for awarding organisations.

3 How simulated working conditions may be used to assess competence

- 3.1 Simulations (designed situations for producing artificially generated evidence) may only be used where candidates are prevented from gathering direct evidence from the workplace in the normal way because:
 - there are hazards
 - it is difficult to distinguish individual performance in team situations
 - circumstances occur infrequently or long term results are involved
 - confidentiality is important
 - there are organisational constraints.
- 3.2 Any instances where simulation is considered to be acceptable as an alternative (to direct workplace evidence) means of generating evidence, will be determined by the relevant ConstructionSkills National Working Group and stated in the unit. Appendix A suggests standard evidence notes for awarding organisations.
- 3.3 The ConstructionSkills National Working Group will determine and specify on the required realistic working environment and context to be adopted. This could include appropriate:
 - tools, equipment and instruments
 - materials
 - types of contingencies
 - standards and quality specifications
 - real timescales
 - quantities of work
 - physical conditions
 - relationships with people
 - types of interaction

- communication methods and media
- information and data.
- 3.4 Where simulated evidence is stated as acceptable in the unit, the circumstances and requirements for the simulation needs to be confirmed by discussions between the candidate and the assessor, and which are then agreed by the internal and external verifiers.
- 3.5 Where other Standard Setting Bodies' units are imported into a ConstructionSkills suite, the evidence requirements of the originating body will be adopted and specified.

4 Occupational expertise requirements for assessors and verifiers

- 4.1 Awarding organisations must ensure that assessors:
 - 4.1.1 have sufficient, verifiable, relevant current industry experience, knowledge and understanding of the occupational working area at, or above, the level being assessed. This must be of sufficient depth to be effective and reliable when judging candidates' competence. Assessors' experience, knowledge and understanding could be verified by a combination of:
 - curriculum vitae and employer endorsement or references
 - possession of a relevant NVQ/SVQ, or vocationally related qualification
 - corporate membership of a relevant professional institution
 - interview

(The verification process must be recorded and available for audit)

- 4.1.2 have sufficient occupational expertise so they have up to date experience, knowledge and understanding of the particular aspects of work they are assessing. This could be verified by records of continuing professional development achievements
- 4.1.3 only assess in their acknowledged area of occupational competence
- 4.1.4 have a sound, in-depth knowledge of, and uphold the integrity of, the sector's NOS and the Assessment Strategy (this document)
- 4.1.5 are prepared to participate in activities for their continued professional development
- 4.1.6 hold, or are working towards, a qualification as listed within 'Assessing and Assuring Quality of Assessment':
 - RQF Level 3 Award in Assessing Competence in the Work Environment
 - RQF Level 3 Award in Assessing Vocationally Related Achievement
 - RQF Level 3 Certificate in Assessing Vocationally Related Achievement
 - RQF Level 3 Certificate in Assessing Vocational Achievement
 - an appropriate Assessor qualification in the SCQF as identified by SQA Accreditation

or hold one of the following

- A1 Assess candidates using a range of methods
- D32/33 Assess candidate performance, using differing sources of evidence

Holders of A1 and D32/33 must assess to the current National Occupational Standards (NOS) for Learning and Development.

In Scotland, approval for exemptions must be obtained from SQA Accreditation.

4.2 Awarding organisations must ensure that internal verifiers:

- 4.2.1 have sufficient, verifiable, relevant up to date experience, knowledge and understanding of the occupational working area at, or above, the level being verified. This must be of sufficient depth to be effective and reliable when verifying judgements about assessors' assessment processes and decisions. Internal verifiers' experience, knowledge and understanding could be verified by a combination of:
 - curriculum vitae and employer endorsement or references
 - possession of a relevant NVQ/SVQ, or vocationally related qualification
 - corporate membership of a relevant professional institution
 - interview

(The verification process must be recorded and available for audit)

- 4.2.2 have expertise so they have up to date experience, knowledge and understanding of the particular aspects of work they are verifying. This could be verified by records of continuing professional development achievements
- 4.2.3 have a sound, in-depth knowledge of, and uphold the integrity of, the sector's NOS and the Assessment Strategy (this document)
- 4.2.4 are prepared to participate in activities for their continued professional development
- 4.2.5 hold, or are working towards, a qualification as listed in 'Assessing and Assuring Quality of Assessment:
 - RQF Level 4 Award in the Internal Quality Assurance of the Assessment RQF Process and Practice
 - RQF Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Process and Practice
 - an appropriate Internal Verifier qualification in the SCQF as identified by SQA Accreditation

or hold one of the following

- VI Conduct internal quality assurance of the assessment process
- D34 Internal verify the assessment process

Holders of V1/D34 must quality assure to the current National Occupational Standards (NOS) for Learning and Development.

It is strongly recommended that within the role of Internal Quality Assurance one of the following qualifications is held.

- RQF Level 3 Award in Assessing Competence in the Work Environment
- RQF Level 3 Certificate in Assessing Vocational Achievement
- an appropriate Assessor qualification in the SCQF as identified by SQA Accreditation or one of the following
- A1 Assess candidates using a range of methods
- D32/33 Assess candidate performance, using differing sources of evidence.
- 4.3 Awarding organisations must ensure that external verifiers:
 - 4.3.1 have sufficient, verifiable, relevant experience, knowledge and a broad understanding of the occupational working area at, or above, the level being verified. This must be of sufficient depth to be effective and reliable when verifying judgements about internal verification and assessment processes and decisions. External verifiers' experience, knowledge and understanding could be verified by a combination of:
 - curriculum vitae and employer endorsement or references
 - possession of a relevant NVQ/SVQ, or vocationally related qualification
 - corporate membership of a relevant professional institution
 - interview

(The verification process must be recorded and available for audit)

- 4.3.2 have sufficient expertise so they have an up to date experience, knowledge and understanding of the particular aspects of work they are verifying. This could be verified by records of continuing professional development achievements
- 4.3.3 have a sound, in-depth knowledge of, and uphold the integrity of, the sector's NOS and the Assessment Strategy (this document)
- 4.3.4 are prepared to participate in activities for their continued professional development
- 4.3.5 hold, or are working towards, a qualification as listed in 'Assessing and Assuring Quality of Assessment':
 - RQF Level 4 Award in the External Quality Assurance of the Assessment Process and Practice
 - RQF Level 4 Certificate in Leading the External Quality Assurance of Assessment
 - an appropriate External Verifier qualification in the SCQF as identified by SQA Accreditation

or hold one of the following

- V2 Conduct external quality assurance of the assessment process
- D35 Externally verify the assessment process

Holders of V2/D35 must quality assure to the current National Occupational Standards (NOS) for Learning and Development.

It is strongly recommended that within the role of External Quality Assurance one of the following qualifications is held at Level 3 and Level 4.

Level 3:

- RQF Level 3 Award in Assessing Competence in the Work Environment
- RQF Level 3 Certificate in Assessing Vocational Achievement
- an appropriate Assessor qualification in the SCQF as identified by SQA Accreditation or one of the following
- A1 Assess candidates using a range of methods
- D32/33 Assess candidate performance, using differing sources of evidence

Level 4:

- RQF Level 4 Award in the Internal Quality Assurance of the Assessment Process and Practice
- RQF Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Process and Practice
- an appropriate Internal Verifier qualification in the SCQF as identified by SQA Accreditation
- VI Conduct internal quality assurance of the assessment process
- D34 Internal verify the assessment process

4.4 Selection and appointment of assessors and verifiers

All applicants should be advised that they may be interviewed. Applicants' CVs should be profiled against the activities and range of the NVQ/SVQ(s) they will assess/verify to check that the applicant has the relevant current experience, knowledge and understanding of the occupational working area:

- at, or above, the level they will be assessing
- of sufficient depth to credibly verify judgements and assessments
- to uphold the integrity of the NOS and this Consolidated Assessment Strategy.

All assessors should have experience as well as, not in lieu of, qualifications.

Where there seem to be gaps in a potentially suitable applicant's experience and knowledge, the applicant should be interviewed. Successful applicants' CVs, profiling, reasons for not needing to interview and interview records should be available for audit.

Appendix 1

Appendix A

ConstructionSkills' standard evidence notes for awarding organisations Standard note 1:

"Taken as a whole, the evidence must show that the candidate consistently meets all the following performance criteria/learning outcomes and assessment criteria across the scope/range."

Standard note 2:

"There must be workplace evidence against each performance criterion/learning outcome and assessment criterion. Where the workplace evidence does not cover the whole scope/range, knowledge evidence must be provided to cover the remaining items of scope/range for each relevant performance criterion/learning outcome and assessment criterion."

Standard note 3:

"Knowledge evidence may be established from questioning the candidate, or from industry recognised industry education and training programme assessment, or professional interview assessment, that has been matched to the requirements of the National Occupational Standards. Such assessments should also have their own independent external assessment, moderation or verification. A candidate's knowledge and understanding can also be demonstrated through presented performance evidence."

Standard note 4:

"Simulations are not considered to be acceptable for producing this evidence."

See also *Annex C: 'Guidance on the use of simulation'* which also includes guidance on the acceptable use and characteristics of simulation within N/SVQs during the current economic climate.

Appendix B

Additional Information on the Assessment of CITB NVQ Units

- CITB NVQ Unit Ref: 641 Assessment Criteria 2.3 and 2.4
 - 2.3 'List the current Health and Safety Executive top ten safety risks' should be assessed as 'List the current common safety risks'.
 - 2.4 'List the current Health and Safety Executive top five health risks' should be assessed as 'List the current common health risks'
- All CITB NVQ units Assessment Criteria 1.4
 - 1.4 'State why and when health and safety control equipment, identified by the principles of protection' should be assessed as 'State why and when health and safety control equipment, identified by the principles of prevention'

THERMAL INSULATION NVQ AND SVQ UNITS AND QUALIFICATIONS

- Training Providers offering Thermal Insulation NVQ and SVQ units and qualifications:
 - o must ensure that their Thermal Insulation assessors are registered with the Thermal Insulation Contractor Association (TICA) and are Thermal Installation installers with at least 5 years verifiable, relevant, current industry experience, knowledge and understanding of the occupational area at, or above the level being assessed. This must be of sufficient depth to be effective and reliable when judging candidates' competence. Assessors' experience, knowledge and understanding could be verified by a combination of:
 - curriculum vitae and employer endorsement
 - references
 - possession of a relevant NVQ/SVQ, or vocationally related qualification
 - interview

(The verification process must be recorded and available for audit)

 will provide opportunities to identify and address particular issues of external control, including the assessment of Thermal Insulation NVQ/SVQ qualifications and Apprenticeship Standards.

Appendix C

Guidance on the use of simulation

Introduction

National Occupational Standards (NOS) are developed by Sector Skills Councils (SSCs) and describe the level of occupational competence required of a particular job role. NOS are then used to build National and Scottish Vocational Qualifications (NVQs/SVQs) that are competence based qualifications and demand assessment in a workplace environment.

Assessment of NVQs/SVQs through simulation is indicated where the achievement of valid and reliable assessment calls for evidence of performance under workplace conditions, but where it will be difficult to assess through normal working practice. This will usually apply as a result of one or more of the following constraints:

- activities which are inherently hazardous and where mistakes made in carrying them out would pose unacceptable risks to the candidate, other people, animals or property (e.g. electricity and gas sectors, fire service etc.)
- the costs incurred would be unacceptably high if mistakes were made during an activity and a candidate would therefore be required to 'prove' competence before progressing onto the actual work (e.g. handling rare or precious objects)
- situations where the qualities and outcomes of the candidate's behaviour are almost impossible to distinguish from those of their peers or colleagues, making authenticity uncertain (e.g. in some teamwork contexts)
- activities or situations which are sufficiently rare (e.g. where processes, such as a 'shut-down', may only occur on an annual basis)
- when the collection and/or review of evidence of workplace performance would intrude unacceptably on personal privacy or confidentiality, or would significantly alter the nature of an interaction or relationship (e.g. in some health care settings)
- a requirement to work with new techniques and/or work practices which may not be available in all workplaces.

Where permitted, simulation can take one or a combination of the two following forms:

- the candidate is presented with an activity to perform using equipment and/or in a location which replicates that found in the workplace
- the candidate is presented with a situation to which they must respond; taking and playing the role they would expect to play in the workplace.

It is a SSC's responsibility to define the acceptability of evidence from simulation in the context of National Occupational Standards (NOS) and National and Scottish Vocational Qualifications (NVQs/SVQs). The ConstructionSkills Consolidated Assessment Strategy provides this guidance.

Guidance on the acceptable use and characteristics of simulation within N/SVQs during the current economic climate

Due to the UK's economic recession over the past few years, ConstructionSkills had implemented flexibilities relating to simulation of NVQs/SVQs for displaced apprentices and although there were small signs of a recovery in 2014 ConstructionSkills' agreed to extended these flexibilities for a further twelve months.

Now that the construction industry has shown definite signs of growth, these flexibilities were withdrawn on 31st March 2015. However, in regard to Apprentices registered before the 1st January 2015 the flexibilities will remain in place until their completion date.

Therefore **only** for Apprentices who registered before the 1st January 2015 the following can apply:

In situations where a displaced or employed apprentice (this does not apply to fultime learners) will not be able to demonstrate evidence in the workplace within an acceptable time span, Awarding Bodies can arrange with their centres to apply the following principles.

- 1 Units cannot be assessed using simulation alone there must be some supporting work- based evidence.
- 2 A centre's strategy for simulation must be examined and approved by the external verifier.
- 3 The location and environment of simulation must be agreed with the internal verifier prior to taking place, and must be checked by the internal verifier.
- 4 The nature of the contingency and the physical environment must be realistic and candidates should not be given any indication as to exactly what contingencies they may come across.
- 5 All simulations must be planned, developed and documented by the centre in a way that ensures the simulation correctly reflects what the unit seeks to assess, and all simulations must follow these documented plans.
- 6 There should be a range of simulation to cover the same aspect of the unit so that the risk of candidates successfully colluding is reduced.
- 7 All simulation must reflect the urgency with which the activity would normally be carried out and the normal time needed to complete it, including the usual complexity of factors affecting the activity.
- 8 All simulation should involve the same personnel as would normally be included (e.g. bricklayer, supervisor, labourer etc.) and also similar realistic facilities.
- 9 Any instances of insufficient work-based evidence must be supported by adequate supplementary evidence which might include questioning; interviews with professional discussion; work projects; case studies; special assignments; self-testimony.

ConstructionSkills would strongly recommend that centres explore strategies with the candidate's employers for obtaining work-based evidence before considering the use of simulation. Examples might include using Group Training Associations, thereby carrying out real jobs within the college/training centre and/or involvement with community projects.

Group Training Association (GTA) is the government term for a training group which also shares apprentices. The GTA model is where a number of like-minded employers come together to create a separate business entity, which sources appropriate training and delivers apprenticeships by providing work experience across the range of engaged businesses.

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