Pearson

Higher National Apprenticeships (HNA®)

A Higher Apprenticeship provides a unique opportunity for students to learn through work and is a great alternative to traditional academic models of higher education. They are designed to train them to do a specific job, or qualify in a named occupation. As a Level 4/5 Higher Apprentice, they can gain a nationally-recognised qualification equivalent to the first or second years of a university degree, whilst working, getting paid, and receiving practical, on-the-job training. Higher Apprenticeships are suitable for those working in higher level technical and professional roles, and those with responsibility for managing, training and developing others.

Mapping for Standards in Construction

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Within these qualifications, there are multiple Units and Learning Outcomes that have the potential to meet different aspects of the Apprenticeship Standards. This mapping document seeks to identify those Units (at Level 4) that may provide assessed evidence of meeting the relevant element of the different Standards.

The mapping below is not exhaustive, and there are a number of opportunities throughout mandatory and optional units to assess the requirements of the Standards.

Mapping to the Pearson BTEC Level 4 Higher National Certificate in Construction in the Built Environment and the BTEC Level 4 Higher National Certification in Construction to the Construction Surveying Technician Apprenticeship Standard

The Higher Nationals in Construction & The Built Environment and Higher Nationals in Construction have different pathways. To meet the requirements of this Apprenticeship Standard, centres will typically deliver the Construction or Surveying Pathways.

Standard Title:	Construction Surveying Technician	Apprenticeship Level:	4

Knowledge, skills and behaviours	Description	Definition of the Minimum Requirements	Higher National Unit	Higher National Learning Outcome
Knowledge 1	Health and Safety	Understand the principles and responsibilities imposed by law and other regulations in a construction environment	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3
Knowledge 2	Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Knowledge 3	Construction Technology	Understand different construction techniques and materials and the principles of design	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Knowledge 4	Contracts	Understand different forms of contracts used in construction and why they are applied in different situations	Unit 5: Legal & Statutory Responsibilities in Construction	4
			Unit 13: Tender & Procurement	2
Knowledge 5	Procurement	Understand the different types of procurement process and negotiation requirements	Unit 13: Tender & Procurement	1,2,3,4
Knowledge 6	Cost Control	Understand the importance of controlling costs during a construction project and the effect of changes to the project	Unit 1: Individual Project	2,3
			Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4
			Unit 15: Principles of Refurbishment	4
Knowledge 7	Financial Reporting	Understand the various forms of reporting on project progress	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
Skill 1	Health & Safety	Apply health and safety issues to all activities	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3

Skill 2	Sustainability	Demonstrate application of the principles of sustainability	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Skill 3	Construction Technology	Assist in the implementation of the most appropriate solutions for construction projects	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Skill 4	Contracts	Be able to apply different types of contracts to different situations	Unit 5: Legal & Statutory Responsibilities in Construction	4
			Unit 13: Tender & Procurement	2
Skill 5	Procurement	Assist in the selection of and negotiation with specialist contractors for a construction project	Unit 13: Tender & Procurement	1,2,3,4
Skill 6	Cost Control	Assist in the measurement and costing of construction works during a project.	Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4
Skill 7	Financial Reporting	Assist in the preparation of financial reports, cash flow and cost forecasts for a construction project	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
Skill 8	Administration	Assist in the collection, collation and storage of relevant data and its analysis	Unit 6: Construction Information (Drawing, Detailing, Specification)	1,3,
			Unit 14: Building Information Modelling	1,2,3,4

Behaviour 1	Commitment to Code of Ethics	Work within Rules and Regulations of Professional Competence and Conduct for the Royal Institution of Chartered Surveyors	Unit 13: Tender & Procurement	1
Behaviour 2	Sustainability	Demonstrate application of the principles of sustainability	Unit 21: Site Supervision and Operations	4
Behaviour 3	Construction Technology	Assist in the implementation of the most appropriate solutions for construction projects	Unit 21: Site Supervision and Operations	4
Behaviour 4	Communicate Effectively	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.	Unit 1: Invidual Project	4
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 8: Mathematics for Construction	2
			Unit 10: Principles of Ventilation and Air Conditioniong Design & installation	3
			Unit 16: Principles of Alternative Energy	3
			Unit 18: Civil Engineering Technology\	2, 4
			Unit 21: Site Supervision and Operations	2, 4
Behaviour 5	Conflict avoidance	Be able to assist in planning to avoid conflict and resolving issues that do arise	Unit 21: Site Supervision and Operations	4
Behaviour 6	Work in Teams	Be able to work with others in a collaborative and non-confrontational way.	Unit 4: Construction Practice & Management	4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	4
Behaviour 7	Demonstrate Innovation	Be able to identify areas for improvement and suggest innovative solutions.	Unit 4: Construction Practice & Management	3
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 21: Site Supervision and Operations	4

It is assumed that students, during their work experience, will be developing additional knowledge and skill to support their evidencing of behaviours required

Mapping to the Pearson BTEC Level 4 Higher National Certificate in Construction in the Built Environment and the BTEC Level 4 Higher National Certification in Construction to the Building Services Engineering Technician Apprenticeship Standard

The Higher Nationals in Construction & The Built Environment and Higher Nationals in Construction have different pathways. To meet the requirements of this Apprenticeship Standard, centres will typically deliver the Building Services Pathway.

Standard Title:	Building Services Engineering Technician	Apprenticeship Level:	4

Knowledge, skills and behaviours	Description	Definition of the Minimum Requirements	Higher National Unit	Higher National Learning Outcome
Knowledge 1	Health and Safety	Understand the principles and responsibilities imposed by law and other regulations in a construction environment	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3
Knowledge 2	Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Knowledge 3	Engineering Principles	Understand engineering techniques, procedures and methods and the principles of design	Unit 2: Construction Technology	3
			Unit 8: Mathematics for Construction	1,2,3,4
			Unit 9: Principles of Heating Services Design & Installation	1,2
			Unit 10: Principles of Ventilation and Air-conditioning Design & Installation	1,2
			Unit 16: Principles of Alternative Energy	1,2
			Unit 17: Principles of Public Health Engineering	2
			Unit 19: Principles of Electrical Design & Installation	1,2,3
Knowledge 4	Project Management	Understand management principles and the project management lifecycle and the contractual conditions on a project	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Knowledge 5	Planning and Organising Work	Understand the importance of project planning and resourcing and be able to analyse different techniques Understand the importance of project planning and resourcing and be able to analyse different techniques	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 9: Principles of Heating Services Design & Installation	1
			Unit 10: Principles of Ventilation and Air-conditioning Design & Installation	1
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 16: Principles of Alternative Energy	3
			unit 17: Principles of Public Health Engineering	2,3
Knowledge 6	Monitor Quality	Able to define the quality required and the commissioning process on a finished building services project	Unit 21: Site Supervision and Operations	1

Skill 1	Health and Safety	Identify risk of activities and encourage all employees to demonstrate safety- conscious behaviours	Unit 3: Science & Materials	1
			Unit 14: Building Information Modelling	3
			Unit 21: Site Supervision and Operations	3
Skill 2	Sustainability	Assess, identify and record the environmental impact of projects	Unit 3: Science & Materials	2
			Unit 16: Principles of Alternative Energy	1,2
			Unit 17: Principles of Public Health Engineering	3,4
Skill 3	Engineering Solutions	Assist in the implementation of the most appropriate solutions for building services projects	Unit 3: Science & Materials	3,4
			Unit 9: Principles of Heating Services Design & Installation	1,2,3,4
			Unit 10: Principles of Ventilation and Air Conditioning Design & Installation	1,2,3,4
			Unit 16: Principles of Alternative Energy	3,4
			Unit 17: Principles of Public Health Engineering	2,3
Skill 4	Project Management	Use effective management principles and be able to supervise building services workers, ensuring adherence to contractual conditions	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Skill 5	Planning and Organising Work	Understand overall plan for project and measure and record progress against plan	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 9: Principles of Heating Services Design & Installation	1
			Unit 10: Principles of Ventilation and Air-conditioning Design & Installation	1
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 16: Principles of Alternative Energy	3
			unit 17: Principles of Public Health Engineering	2,3
Skill 6	Monitor Quality	Assess and report on quality standards and assist in commissioning of finished building services projects	Unit 21: Site Supervision and Operations	1

Behaviour 1	Professional Judement	Be able to work within own level of competence and know when to seek advice from others	Unit 1: Invidual Project	2,4
			Unit 4: Construction Practice & Management	4
			Unit 9: Principles of Heating Services Design & Installation	4
			Unit 10: Principles of Ventilation and Air Conditioniong Design & installation	4
			Unit 21: Site Supervision and Operations	2,4
Behaviour 2	Commitment to Code of Ethics	Work within Rules and Regulations of Professional Competence and Conduct for the Chartered Institution of Building Services Engineers	Unit 4: Construction Practice & Management	1
			Unit 9: Principles of Heating Services Design & Installation	1
			Unit 10: Principles of Ventilation and Air Conditioniong Design & installation	1
			Unit 13: Tender & Procurement	4
			Unit 17: Principles of Public Health Engineering	2

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Standard Title:	Building Services Engineering Technician		Apprenticeship Level:	4
Behaviour 3	Continuing Professional Development	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.	Unit 21: Site Supervision and Operations	4
Behaviour 4	Commitment to Equality and Diversity	Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.	Unit 21: Site Supervision and Operations	4
Behaviour 5	Communicate Effectively	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.	Unit 1: Invidual Project	4
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 8: Mathematics for Construction	2
			Unit 10: Principles of Ventilation and Air Conditioniong Design & installation	3
			Unit 16: Principles of Alternative Energy	3
			Unit 18: Civil Engineering Technology\	2, 4
			Unit 21: Site Supervision and Operations	2, 4
Behaviour 6	Work in Teams	Be able to work with others in a collaborative and non-confrontational way.	Unit 4: Construction Practice & Management	4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	4
Behaviour 7	Communicate Effectively	Be able to identify areas for improvement and suggest innovative solutions.	Unit 4: Construction Practice & Management	3
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 21: Site Supervision and Operations	4

It is assumed that students, during their work experience, will be developing additional knowledge and skill to support their evidencing of behaviours required

Mapping to the Pearson BTEC Level 4 Higher National Certificate in Construction in the Built Environment and the BTEC Level 4 Higher National Certification in Construction to the Construction Design Build Technician Apprenticeship Standard

The Higher Nationals in Construction & The Built Environment and Higher Nationals in Construction have different pathways. To meet the requirements of this Apprenticeship Standard, centres will typically deliver the Construction or Surveying Pathways.

Standard Title:	Construction Design Build Technician	Apprenticeship Level:	4

Knowledge, skills and behaviours	Description	Definition of the Minimum Requirements	Higher National Unit	Higher National Learning Outcome
Knowledge 1	Client Requirements	Know how to analyse client requirements and ensure comprehensive survey information	Unit 1: Individual Projects	1
			Unit 11: Measurement & Estimating	1
			Unit 13: Tender & Procurement	1,3
			Unit 15: Principles of Refurbishment	4
			Unit 21: Site Supervision & Operations	3
Knowledge 2	Health and safety	Understand risk assessment of design solutions and the importance of behaviours in safety-critical environments	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3
Knowledge 3	Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Knowledge 4	Construction technology	Understand different construction methods and materials and building regulations	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Knowledge 5	Develop Designs	Understand how to develop detailed designs in line with client requirements and construction process	Unit 2: Construction Technology	1,2,4
			Unit 3: Science & Materials	1,4
			Unit 4: Construction Practice & Management	3
			Unit 5: Legal & Statutory Responsibilities in Construction	2,3
			Unit 15: Principles of Refurbishment	3,4
Knowledge 6	Design Documentation	Understand how to co-ordinate design information in both electronic and paper form	Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,3,4
			Unit 11: Measurement & Estimating	1,2
			Unit 13: Tender & Procurement	1
			Unit 14: Building Information Modelling	1,2,3,4
			Unit 15: Principles of Refurbishment	4

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Standard Title:	Construction Design Build Technician		Apprenticeship Level:	4
Knowledge 7	Monitor Compliance	Understand construction contracts and client quality standards	Unit 4: Construction Practice & Management	2,3
			Unit 5: Legal & Statutory Responsibilities in Construction	4
			Unit 13: Tender & Procurement	1,2
Knowledge 8	Monitor Costs	Understand the importance of cost control on a construction project	Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4
Skill 1	Client Requirements	Assist in the assessment and presentation of client requirements	Unit 1: Individual Projects	4
			Unit 11: Measurement & Estimating	4
			Unit 15: Principles of Refurbishment	4
			Unit 21: Site Supervision & Operations	1,2
Skill 2	Health and safety	Identify risk in designs and suggest actions to reduce risks	Unit 3: Science & Materials	1
			Unit 14: Building Information Modelling	3
			Unit 21: Site Supervision and Operations	3
Skill 3	Sustainability	Assess, identify and record the environmental impact of projects	Unit 3: Science & Materials	2
			Unit 16: Principles of Alternative Energy	1,2
			Unit 17: Principles of Public Health Engineering	3,4
Skill 4	Construction Technology	Assist in the implementation of the most appropriate solutions for construction projects whilst maintaining adherence to building regulations	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Skill 5	Develop Designs	Prepare and present design proposals and solutions	Unit 2: Construction Technology	1,2,4
			Unit 3: Science & Materials	1,4
			Unit 4: Construction Practice & Management	3
			Unit 5: Legal & Statutory Responsibilities in Construction	2,3
			Unit 15: Principles of Refurbishment	3,4
Skill 6	Design Documentation	Control document production and design information	Unit 6: Construction Information (Drawing, Detailing, Specification)	2
			Unit 11: Measurement & Estimating	1,2
			Unit 13: Tender & Procurement	1
			Unit 14: Building Information Modelling	1,2,3,4
			Unit 15: Principles of Refurbishment	4
Skill 7	Monitor Compliance	Inspect and report on quality standards and assist in commissioning of finished construction projects	Unit 21: Site Supervision and Operations	1
Skill 8	Monitor Costs	Understand financial and legal constraints and measure and record progress against budget	Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4

Standard Title:	Construction Design Build Technician		Apprenticeship Level:	4
Behaviour 1	Professional Judgement	Be able to work within own level of competence and know when to seek advice from others	Unit 1: Invidual Project	2,4
			Unit 4: Construction Practice & Management	4
			Unit 18: Civil Engineering Technology	3
			Unit 21: Site Supervision and Operations	2,4
Behaviour 2	Commitment to Code of Ethics	Work within Rules and Regulations of Professional Competence and Conduct for the Chartered Institute of Architectural Technologists	Unit 6: Construction Information (Drawing, Detailing, Specification)	1,3,4
			Unit 14: Building Information Modelling	2,3,4
Behaviour 3	Continuting Professional Development	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.	Unit 21: Site Supervision and Operations	4
Behaviour 4	Commitment to Equality and Diversity	Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.	Unit 21: Site Supervision and Operations	4
Behaviour 5	Communicate Effectively	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.	Unit 1: Invidual Project	4
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 8: Mathematics for Construction	2
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,3,4
			Unit 21: Site Supervision and Operations	2, 4
Behaviour 6	Work in teams	Be able to work with others in a collaborative and non-confrontational way.	Unit 4: Construction Practice & Management	4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	4
Behaviour 7	Demonstrate Innovation	Be able to identify areas for improvement and suggest innovative solutions.	Unit 4: Construction Practice & Management	3
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 21: Site Supervision and Operations	4

It is assumed that students, during their work experience, will be developing additional knowledge and skill to support their evidencing of behaviours required

Mapping to the Pearson BTEC Level 4 Higher National Certificate in Construction in the Built Environment and the BTEC Level 4 Higher National Certification in Construction to the Construction Site Engineering Technician Apprenticeship Standard

The Higher Nationals in Construction & The Built Environment and Higher Nationals in Construction have different pathways. To meet the requirements of this Apprenticeship Standard, centres will typically deliver the Civil Engineering Pathway.

Standard Title:	Construction Site Engineering Technician	Apprenticeship Level:	4

Knowledge, skills and behaviours	Description	Definition of the Minimum Requirements	Higher National Unit	Higher National Learning Outcome
Knowledge 1	Health and safety	Understand the principles and responsibilities imposed law and other regulations in a construction environment	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3
Knowledge 2	Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Knowledge 3	Engineering Principles	Understand engineering techniques, procedures and methods and the principles of design	Unit 2: Construction Technology	3
			Unit 8: Mathematics for Construction	1,2,3,4
			Unit 18: Civil Engineering Technology	1,3
			Unit 20: Principles of Structural Design	1,2,3
Knowledge 4	Project Management	Understand management principles and the project management lifecycle and the contractual conditions on a project	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Knowledge 5	Construction Management	Understand management principles and the project management lifecycle	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Knowledge 6	Planning and Organising Work	Understand the importance of project planning and resourcing and be able to analyse different techniques	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 18: Civil Engineering Technology	2,4
			Unit 20: Principles of Structural Design	4
Knowledge 7	Monitor Quality	Able to define the quality required on a finished construction project	Unit 13: Tender & Procurement	3,4
			Unit 20: Principles of Structural Design	3
			Unit 21: Site Supervision and Operations	1

Standard Title:	Construction Site Engineering Technician		Apprenticeship Level:	4
Skill 1	Health and safety	Identify risk of activities and encourage all employees to demonstrate safety- conscious behaviours	Unit 1: Individual Projects	4
			Unit 11: Measurement & Estimating	4
			Unit 15: Principles of Refurbishment	4
			Unit 21: Site Supervision & Operations	1,2
Skill 2	Sustainability	Assess, identify and record the environmental impact of projects	Unit 3: Science & Materials	1
			Unit 14: Building Information Modelling	3
			Unit 21: Site Supervision and Operations	3
Skill 3	Engineering Solutions	Assist in the implementation of the most appropriate solutions for building services projects	Unit 3: Science & Materials	2
			Unit 18: Civil Engineering Technology	3,4
			Unit 20: Principles of Structural Design	1,2,3,4
Skill 4	Planning and Organising Work	Understand overall plan for project and measure and record progress against plan	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 18: Civil Engineering Technology	1,2
			Unit 20: Principles of Structural Design	4
Skill 5	Design Documentation	Control document production and design information	Unit 6: Construction Information (Drawing, Detailing, Specification)	2,3,4
			Unit 14: Building Information Modelling	2,3
			Unit 21: Site Supervision and Operations	1
Skill 6	Monitor Quality	Assess and report on quality standards and assist in commissioning of finished building services projects	Unit 6: Construction Information (Drawing, Detailing, Specification)	2
			Unit 11: Measurement & Estimating	1,2
			Unit 13: Tender & Procurement	1
			Unit 14: Building Information Modelling	1,2,3,4
			Unit 15: Principles of Refurbishment	4
Skill 7	Monitor Costs	Understand financial and legal constraints and measure and record progress against budget	Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4

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Standard Title:	Construction Site Engineering Technician		Apprenticeship Level:	4
Behaviour 1	Professional Judgement	Be able to work within own level of competence and know when to seek advice from others	Unit 1: Invidual Project	2,4
			Unit 4: Construction Practice & Management	4
			Unit 18: Civil Engineering Technology	3
			Unit 21: Site Supervision and Operations	2,4
Behaviour 2	Commitment to Code of Ethics	Work within Rules and Regulations of Professional Competence and Conduct for the Institution of Civil Engineers	Unit 18: Civil Engineering Technology	2
			Unit 20: Principles of Structural Design	1
Behaviour 3	Continuting Professional Development	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.	Unit 21: Site Supervision and Operations	4
Behaviour 4	Commitment to Equality and Diversity	Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.	Unit 21: Site Supervision and Operations	4
Behaviour 5	Communicate Effectively	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.	Unit 1: Invidual Project	4
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 8: Mathematics for Construction	2
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,3,4
			Unit 21: Site Supervision and Operations	2, 4
Behaviour 6	Work in teams	Be able to work with others in a collaborative and non-confrontational way.	Unit 4: Construction Practice & Management	4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	4
Behaviour Module 7	Demonstrate Innovation	Be able to identify areas for improvement and suggest innovative solutions.	Unit 4: Construction Practice & Management	3
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 21: Site Supervision and Operations	4

It is assumed that students, during their work experience, will be developing additional knowledge and skill to support their evidencing of behaviours required

Mapping to the Pearson BTEC Level 4 Higher National Certificate in Construction in the Built Environment and the BTEC Level 4 Higher National Certification in Construction to the Construction Site Supervisor Apprenticeship Standard

The Higher Nationals in Construction & The Built Environment and Higher Nationals in Construction have different pathways. To meet the requirements of this Apprenticeship Standard, centres will typically deliver the Construction, Civil Engineering or Surveying Pathways.

Standard Title:	Construction Site Supervisor	Apprenticeship Level:	4

Knowledge, skills and behaviours	Description	Definition of the Minimum Requirements	Higher National Unit	Higher National Learning Outcome
Knowledge 1	Health and Safety	Understand risk assessment of activities and the importance of behaviours in safety-critical environments	Unit 3: Science & Materials	1
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision & Operations	3
			Unit 5: Legal & Statutory Responsibilities in Construction	3
			Unit 21: Site Supervision & Operations	3
Knowledge 2	Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects	Unit 3: Science & Materials	2,3
			Unit 16: Principles of Alternative Energy	4
			Unit 17: Principles of Public Health Engineering	3
Knowledge 3	Construction Technology	Understand different construction methods and materials	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Knowledge 4	Construction Management	Understand management principles and the project management lifecycle	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Knowledge 5	Planning and Organising Work	Understand the importance of project planning and resourcing and be able to analyse different techniques	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 9: Principles of Heating Services Design & Installation	1
			Unit 10: Principles of Ventilation and Air-conditioning Design & Installation	1
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 18: Civil Engineering Technology	2,4
			Unit 20: Principles of Structural Design	4
Knowledge 6	Monitor Quality	Able to define the quality required on a finished construction project	Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 20: Principles of Structural Design Unit 15: Principles of Refurbishment	2,4 4 4
Knowledge 7	Monitor Compliance	Understand construction contracts and client quality standards	Unit 13: Tender & Procurement	3,4
			Unit 20: Principles of Structural Design	3
			Unit 21: Site Supervision and Operations	1

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Standard Title:	Construction Site Supervisor		Apprenticeship Level:	4
Skill 1	Health and Safety	Identify risk of activities and encourage all employees to demonstrate safety- conscious behaviours	Unit 1: Individual Projects	4
			Unit 11: Measurement & Estimating	4
			Unit 15: Principles of Refurbishment	4
			Unit 21: Site Supervision & Operations	1,2
Skill 2	Sustainability	Assess, identify and record the environmental impact of projects	Unit 3: Science & Materials	1
			Unit 14: Building Information Modelling	3
			Unit 21: Site Supervision and Operations	3
Skill 3	Construction Technology	Assist in the implementation of the most appropriate solutions for construction projects	Unit 2: Construction Technology	1,2,3
			Unit 3: Science & Materials	3,4
Skill 4	Construction Management	Use effective management principles and be able to supervise construction workers	Unit 1: Individual Project	2,3
			Unit 4: Construction Practice & Management	3
			Unit 21: Site Supervision & Operations	1,3
Skill 5	Planning and Organising Work	Understand overall plan for project and measure and record progress against plan	Unit 1: Individual Project	1
			Unit 4: Construction Practice & Management	3,4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,4
			Unit 9: Principles of Heating Services Design & Installation	1
			Unit 10: Principles of Ventilation and Air-conditioning Design & Installation	1
			Unit 13: Tender & Procurement	1,3
			Unit 14: Building Information Modelling	1,4
			Unit 16: Principles of Alternative Energy	3
			Unit 18: Civil Engineering Technology	1,2
			Unit 20: Principles of Structural Design	4
Skill 6	Monitor Quality	Assess and report on quality standards and assist in commissioning of finished construction projects	Unit 6: Construction Information (Drawing, Detailing, Specification)	2
			Unit 11: Measurement & Estimating	1,2
			Unit 13: Tender & Procurement	1
			Unit 14: Building Information Modelling	1,2,3,4
			Unit 15: Principles of Refurbishment	4
Skill 7	Monitor Costs	Understand financial and legal constraints and measure and record progress against budget	Unit 11: Measurement & Estimating	3
			Unit 13: Tender & Procurement	4
			Unit 12: Financial Management and Business Practices in Construction	2,4

Standard Title:	Construction Site Supervisor		Apprenticeship Level:	4
Behaviour 1	Professional Judgement	Be able to work within own level of competence and know when to seek advice from others	Unit 1: Invidual Project	2,4
			Unit 4: Construction Practice & Management	4
			Unit 21: Site Supervision and Operations	2,4
Behaviour 2	Commitment to Code of Ethics	Work within Rules and Regulations of Professional Competence and Conduct for the Chartered Institute of Building	Unit 4: Construction Practice & Management	1
			Unit 13: Tender & Procurement	4
Behaviour 3	Continuting Professional Development	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.	Unit 21: Site Supervision and Operations	4
Behaviour 4	Commitment to Equality and Diversity	Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.	Unit 21: Site Supervision and Operations	4
Behaviour 5	Planning and Organising Work	Understand overall plan for project and measure and record progress against plan	Unit 1: Invidual Project	4
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 8: Mathematics for Construction	2
			Unit 6: Construction Information (Drawing, Detailing, Specification)	1,2,3,4
			Unit 21: Site Supervision and Operations	2, 4
Behaviour 6	Work in teams	Be able to work with others in a collaborative and non-confrontational way.	Unit 4: Construction Practice & Management	4
			Unit 6: Construction Information (Drawing, Detailing, Specification)	4
Behaviour 7	Demonstrate Innovation	Be able to identify areas for improvement and suggest innovative solutions.	Unit 4: Construction Practice & Management	3
			Unit 7: Surveying, Measuring & Setting-out	4
			Unit 21: Site Supervision and Operations	4

It is assumed that students, during their work experience, will be developing additional knowledge and skill to support their evidencing of behaviours required

Pearson

For more information, please email **highernationals@pearson.com**