

Higher Nationals

Issue 2 February 2015

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### Pearson BTEC Level 4 HNC Diploma in Vehicle Operations Management (QCF)

### Pearson BTEC Level 5 HND Diploma in Vehicle Operations Management (QCF)

The Qualifications and Credit Framework (QCF) was introduced to replace the National Qualifications Framework (NQF). It recognises achievement through the award of credit for units and qualifications, working at all levels between Entry level and level 8.

To accommodate the framework we took the opportunity to revise the academic level and size of the BTEC HNCs (Higher National Certificates). These are now at level 4 and are a minimum of 120 credits in size. They have been nested within the structures of the BTEC HNDs (Higher National Diplomas).

BTEC HNDs are level 5 qualifications. They are a minimum of 240 credits in size.

The qualifications remain as Intermediate level qualifications on the Framework for Higher Education Qualifications (FHEQ). Progression to BTEC Higher Nationals continues to be from level 3 qualifications. Progression from BTEC Higher Nationals will normally be to qualifications at level 6. Learners' progression routes do not necessarily involve qualifications at every level.

As a nested qualification the HNC is an embedded component of the HND. However, it can be taken as a stand-alone qualification.

If a learner enrols for an HNC they would be eligible to gain a grade for the HNC. If they then move onto an HND, the learner is graded on their HND performance. The grade for the HND will include units from the previously achieved HNC.

If a learner opts to take an HND from the start, then on successful completion of the HND they will receive one grade for the HND achievement only.

If a learner opts to take an HND from the start but later chooses to revert to an HNC programme, then on successful completion of the HNC they will receive a grade for the HNC achievement only.

Existing NQF Higher National units achievement can count towards the QCF BTEC Higher Nationals. (See *Annexe D* for NQF to QCF unit mapping.)

# BTEC Higher Nationals within the QCF, NQF and FHEQ

QCF/NQF/ FHEQ level	Progression opportunities and examples of qualifications within each level	
8	PhD/DPhil Professional doctorates (credit based), e.g. EdD	
7	Master's degrees Postgraduate diplomas Postgraduate Certificate in Education (PGCE)	
6	Bachelor's degrees, e.g. BA, BSc Professional Graduate Certificate in Education Graduate certificates and diplomas	
5	BTEC HNDs (Higher National Diplomas) Foundation Degrees, e.g. FdA, FdSc Diplomas of Higher Education (Dip HE)	
4	BTEC HNCs (Higher National Certificates) Certificates of Higher Education (Cert HE) Level 4 National Vocational Qualifications (NVQs)	
3	BTEC Level 3 Extended Diplomas BTEC Level 3 Diplomas BTEC Level 3 Subsidiary Diplomas BTEC Level 3 Certificates GCE Advanced Level Level 3 NVQs Advanced Diplomas	

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# Qualification titles covered by this specification

Pearson BTEC Level 4 HNC Diploma in Vehicle Operations Management (QCF)

Pearson BTEC Level 5 HND Diploma in Vehicle Operations Management (QCF)

These qualifications have been accredited to the Qualifications and Credit Framework (QCF). The Qualification Numbers (QNs) for these qualifications are listed below.

These qualification titles are as they will appear on learners' certificates. Learners need to be made aware of this when they are recruited by the centre and registered with Pearson. Providing this happens, centres are able to describe the programme of study leading to the award of the qualification in different ways to suit the medium and the target audience.

The Quality Assurance Agency for Higher Education (QAA) has produced guidelines for centres in preparing programme specifications (reference *Guidelines for preparing programme specifications*: UK Quality Code for Higher Education, Part A Chapter A3.)

### **Qualification Numbers**

The Qualifications and Credit Framework (QCF) code is known as a Qualification Number (QN). Each unit within a qualification will also have a QCF unit code.

The QCF qualification and unit codes will appear on learners' final certification documentation.

The QNs for the qualifications in this publication are:

600/2940/7 Pearson BTEC Level 4 HNC Diploma in Vehicle Operations Management (QCF)

600/2944/4 Pearson BTEC Level 4 HND Diploma in Vehicle Operations Management (QCF)

### **Introduction**

This specification contains the units and associated guidance for the Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF) and the Pearson BTEC Level 5 HND in Vehicle Operations Management (QCF).

Each unit sets out the required learning outcomes, assessment criteria and content and may also include advice regarding essential delivery and assessment strategies.

This document also contains details of the teaching, learning, assessment and quality assurance of these qualifications. It includes advice about our policies regarding access to our qualifications, the design of programmes of study and delivery modes.

### Structure of the qualification

#### **BTEC Level 4 HNC**

The Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF) is a qualification with a minimum of 120 credits of which 50 are mandatory core.

The BTEC Level 4 HNC programme must contain a minimum of 65 credits at level 4.

#### **BTEC Level 5 HND**

The Pearson BTEC Level 5 HND in Vehicle Operations Management (QCF) is a qualification with a minimum of 240 credits of which 65 are mandatory core.

The BTEC Level 5 HND programme must contain a minimum of 125 credits at level 5 or above.

# Rules of combination for BTEC Levels 4 and 5 Higher National qualifications

The rules of combination specify the:

- total credit value of the qualification
- minimum credit to be achieved at the level of the qualification
- mandatory core unit credit
- specialist unit credit
- maximum credit that can be centre devised or imported from other QCF BTEC Higher National qualifications.

When combining units for a BTEC Higher National qualification it is the centre's responsibility to ensure that the following rules of combination are adhered to:

#### Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF)

- 1 Qualification credit value: a minimum of 120 credits. (A maximum of 55 credits may be at level 5.)
- 2 Minimum credit to be achieved at the level of the qualification (level 4): 65 credits.
- 3 Mandatory core unit credit: 50 credits.
- 4 Specialist unit credit: 70 credits.
- A maximum of 30 credits can be centre devised or imported from other QCF BTEC Higher National qualifications to meet local needs. Level rules and mandatory core units must not be changed.

#### Pearson BTEC Level 5 HND in Vehicle Operations Management (QCF)

- 1 Qualification credit value: a minimum of 240 credits. (A maximum of 30 credits may be at level 6.)
- 2 Minimum credit to be achieved at the level of the qualification (level 5) or above: 125 credits.
- 3 Mandatory core unit credit: 65 credits.
- 4 Specialist unit credit: 175 credits.
- 5 The requirements of the HNC have to be met
- A maximum of 60 credits can be centre devised or imported from other QCF BTEC Higher National qualifications to meet local needs. Level rules and mandatory core units must not be changed.

### Structure of the Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF)

Unit number	Mandatory core units – all three units must be taken		Unit credit
1	Business Planning for Vehicle Operations	4	15
2	Managing Resources in Vehicle Operations	4	15
3	Project Design, Implementation and Evaluation	5	20
	Specialist units group A – choose units with a minimum credit value of 45 credits		
4	Managing People in Vehicle Operations	5	15
5	Finance and Accounting for Vehicle Operations	5	15
6	Business Law for Vehicle Operations	4	15
7	Customer Service in Vehicle Operations	4	15
8	Managing Quality in Vehicle Operations	5	15
9	Marketing Vehicle Operations	4	15
10	Vehicle Fault Diagnosis	4	15
11	Vehicle Systems and Technology	5	15
12	Plan and Co-ordinate Vehicle Maintenance	5	15
13	Automotive Accident Investigation	5	15
14	Vehicle Electronics	4	15
15	Business Strategy Planning for Vehicle Operations	5	15
16	Engine and Vehicle Design and Performance	5	15
17	Vehicle Parts Management	5	15
18	Quantitative Techniques for Vehicle Operations	4	15
19	Fleet Transport Operations	5	15
20	Vehicle Damage Assessment	5	15
21	Transport Legislation	5	15
22	Motor Insurance Principles	4	15
	Specialist units – group B		
23	Working With and Leading People	5	15
24	Small Business Enterprise	5	15
25	Organisations and Behaviour	4	15

Unit number	Specialist units – group B continued	Unit level	Unit credit
26	Employability Skills	5	15
27	Personal and Professional Development	5	15
28	Research Project	5	20
29	Work-based Experience	5	15
30	Financial Accounting and Reporting	4	15
31	Managing Business Activities to Achieve Results	4	15
32	Mechanical Principles	5	15
33	Electrical and Electronic Principles	5	15
34	Analytical Methods for Engineers	4	15
35	Engineering Science	4	15

The BTEC Level 4 HNC programme must contain a minimum of 65 credits at level 4.

### Structure of the Pearson BTEC Level 5 HND in Vehicle Operations Management (QCF)

Unit number	Mandatory core units – all four units must be taken		Unit credit
1	Business Planning for Vehicle Operations	4	15
2	Managing Resources in Vehicle Operations	4	15
3	Project Design, Implementation and Evaluation	5	20
4	Managing People in Vehicle Operations	5	15
	Specialist units group A - choose units with a minimum credit value of 75 credits		
5	Finance and Accounting for Vehicle Operations	5	15
6	Business Law for Vehicle Operations	4	15
7	Customer Service in Vehicle Operations	4	15
8	Managing Quality in Vehicle Operations	5	15
9	Marketing Vehicle Operations	4	15
10	Vehicle Fault Diagnosis	4	15
11	Vehicle Systems and Technology	5	15
12	Plan and Co-ordinate Vehicle Maintenance	5	15
13	Automotive Accident Investigation	5	15
14	Vehicle Electronics	4	15
15	Business Strategy Planning for Vehicle Operations	5	15
16	Engine and Vehicle Design and Performance	5	15
17	Vehicle Parts Management	5	15
18	Quantitative Techniques for Vehicle Operations	4	15
19	Fleet Transport Operations	5	15
20	Vehicle Damage Assessment	5	15
21	Transport Legislation	5	15
22	Motor Insurance Principles	4	15
	Specialist units – group B		
23	Working With and Leading People	5	15
24	Small Business Enterprise	5	15
25	Organisations and Behaviour	4	15
26	Employability Skills	5	15

Unit number	Specialist units – group B continued		Unit credit
27	Personal and Professional Development	5	15
28	Research Project	5	20
29	Work-based Experience	5	15
30	Financial Accounting and Reporting	4	15
31	Managing Business Activities to Achieve Results	4	15
32	Mechanical Principles	5	15
33	Electrical and Electronic Principles	5	15
34	Analytical Methods for Engineers	4	15
35	Engineering Science	4	15

The BTEC Level 5 HND programme must contain a minimum of 125 credits at level 5.

### **Key features**

BTEC Higher Nationals are designed to provide a specialist vocational programme, linked to professional body requirements and National Occupational Standards where appropriate.

They offer a strong, sector-related emphasis on practical skills development alongside the development of requisite knowledge and understanding.

The qualifications provide a thorough grounding in the key concepts and practical skills required in their sector and their national recognition by employers allows direct progression to employment.

A key progression path for BTEC HNC and HND learners is to the second or third year of a degree or honours degree programme, depending on the match of the BTEC Higher National units to the degree programme in question.

The Pearson BTEC HNC and HND in Vehicle Operations Management (QCF) offer a progression route to the professional qualifications offered by the Society of Operations Engineers and the Institute of the Motor Industry (IMI).

Pearson BTEC Higher Nationals in Vehicle Operations Management (QCF) have been developed to focus on:

- the education and training of vehicle operations managers/technicians who are employed at a professional level in a variety of types of management/technical work, such as workshop controllers, after sales managers, sales managers, fleet engineers, transport managers or vehicle inspectors
- providing opportunities for vehicle operations managers/technicians to achieve a nationally recognised, Level 4 or Level 5 vocationally specific qualification
- providing opportunities for learners to gain a nationally recognised vocationally specific qualification, enter employment as a vehicle operations manager/engineer/technician, or progress to higher education qualifications such as a full- or part-time degree in vehicle management/automotive engineering or related areas
- providing opportunities for learners to focus on the development of the higher level skills in a technological and management context
- providing opportunities for learners to develop a range of skills and techniques essential for successful performance in working life.

The qualifications meet the needs of the above rationale by:

- developing a range of skills, techniques and personal attributes essential for successful performance in working life, thereby enabling learners to make an immediate contribution to employment at the appropriate professional level
- preparing learners for a range of technical and management careers in the vehicle operations sector
- equipping individuals with knowledge, understanding and skills for success in employment in the light, heavy and passenger transport industries
- providing specialist studies relevant to vocations and professions in which learners are working or intend to seek employment in vehicle operations and its related industries

 enabling progression to or counting towards an undergraduate degree or further professional qualification in vehicle operations management/automotive engineering or related area.

#### **Progression from the BTEC Level 4 HNC**

The Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF) provides a specialist work-related programme of study that covers the key knowledge, understanding and practical skills required in the vehicle operations sector and offers particular specialist emphasis through the choice of specialist units.

BTEC Level 4 HNCs provide a nationally recognised qualification offering career progression and professional development for those already in employment and opportunities to progress into higher education. The qualifications are primarily undertaken by part-time learners studying over two years. In some sectors there are opportunities for those wishing to complete an intensive programme of study in a shorter period of time.

This specification gives centres a framework to develop engaging programmes for higher education learners who are clear about the area of employment that they wish to enter.

The Pearson BTEC Level 4 HNC in Vehicle Operations Management (QCF) offers a progression route for learners who are employed in the vehicle operations and service sector.

#### **Progression from the BTEC Level 5 HND**

The BTEC Level 5 HND provides greater breadth and specialisation than the BTEC Level 4 HNC. BTEC HNDs are followed predominately by full-time learners. They allow progression into or within employment in the vehicle operations sector, either directly on achievement of the award or following further study to degree level.

The Pearson BTEC Level 5 HND in Vehicle Operations Management (QCF) provides opportunities for learners to apply their knowledge and practical skills in the workplace. Full-time learners have the opportunity to do this through formal work placements or part-time employment experience.

The qualification prepares learners for employment in the vehicle operations sector and will be suitable for learners who have already decided that they wish to enter this area of work. Some adult learners may wish to make the commitment required by this qualification in order to enter a specialist area of employment in vehicle operations or progress into higher education. Other learners may want to extend the specialism that they followed on the BTEC Level 4 HNC programme.

Progression from this qualification may well be into or within employment in the vehicle operations sector where learners may work towards membership of the Society of Operations Engineers or the Institute of the Motor Industry (IMI).

Alternatively, learners could progress to degree courses in related areas such as management, automotive engineering or automotive dealership management.

#### **Professional body recognition**

The Pearson BTEC Higher Nationals in Vehicle Operations Management (QCF) have been developed with career progression and recognition by professional bodies in mind.

This development has been informed by discussions with the Engineering Council UK (ECUK), Society of Operations Engineers (SOE), and Institute of Motor Industry (IMI).

#### **National Occupational Standards**

There are currently no National Occupational Standards (NOS) for vehicle operations. However, some units in the Higher Nationals in Vehicle Operations Management relate to the Level 4 NOS in Maintenance and Repair, Level 4 NOS in Business Improvement Techniques, Level 4 NOS in Vehicle Damage Assessment and Level 4 NOS in Engineering Management.

Annexe B contains mapping of the Higher National units in this specification against relevant Level 4 NOS where appropriate.

#### **Qualification Frameworks for Higher National Diplomas**

In England, Wales and Northern Ireland, BTEC HNC and HND Diplomas may either be awarded by degree-awarding bodies under a licence from Pearson (which allows them to devise, deliver and award Higher National qualifications themselves), or they may be awarded directly by Pearson, as an awarding body regulated by Ofqual. The majority of BTEC HNC and HND Diplomas are awarded by Pearson. Only those HNC and HND Diplomas that are awarded by degree-awarding bodies are included on the Framework for Higher Education Qualifications (FHEQ) (because this framework comprises qualifications awarded by degree-awarding bodies.) BTEC HNC and HND Diplomas awarded directly by Pearson are regulated qualifications at Level 4 and Level 5 on the Qualifications and Credit Framework (QCF) and the Credit and Qualifications Framework for Wales (CQFW) and are subject to the academic standards and regulations of Pearson and the requirements of the QCF and CQFW.

The QCF level descriptors have been used to describe the relative intellectual demand, complexity, depth of learning and learner autonomy associated with the level 4 or 5 level of learning and achievement.

QAA subject and qualification benchmark statements have been used to provide points of reference for each level.

Employers and higher education providers can expect that typical learners studying for the Pearson BTEC Higher Nationals in Vehicle Operations Management (QCF) should have developed certain higher level skills and abilities and studied a mandatory curriculum and selected optional specialist units. This detail is contained in the 'Qualification Requirements' in *Annexe A* of this specification.

### Teaching, learning and assessment

Learners must achieve a minimum of 120 credits (of which at least 65 must be at level 4) on their programme of learning to be awarded a BTEC Level 4 HNC and a minimum of 240 credits (of which at least 125 must be at level 5 or above) to be awarded a BTEC Level 5 HND.

The assessment of BTEC Higher National qualifications is criterion-referenced and centres are required to assess learners' evidence against published learning outcomes and assessment criteria.

All units will be individually graded as 'pass', 'merit' or 'distinction'. To achieve a pass grade for the unit learners must meet the assessment criteria set out in the specifications. This gives transparency to the assessment process and provides for the establishment of national standards for each qualification.

The units in BTEC Higher National qualifications all have a standard format which is designed to provide guidance on the requirements of the qualification for learners, assessors and those responsible for monitoring national standards.

#### **Unit format**

Each unit is set out in the following way.

Unit title, unit code, QCF level and credit value.

The unit title is accredited on the QCF and this form of words will appear on the learner's Notification of Performance.

Each unit is assigned a level, indicating the relative intellectual demand, complexity and depth of study, and learner autonomy. All units and qualifications within the QCF will have a level assigned to them, which represents the level of achievement. There are nine levels of achievement, from Entry level to level 8. The level of the unit has been informed by the QCF level descriptors and, where appropriate, the National Occupational Standards (NOS) and/or other sector/professional benchmarks.

Each unit in BTEC Higher National qualifications has a credit value which specifies the number of credits that will be awarded to a learner who has achieved all the learning outcomes of the unit. Learners will be awarded credits for the successful completion of whole units.

#### Aim

The aim provides a clear summary of the purpose of the unit and is a succinct statement that summarises the learning outcomes of the unit.

#### Unit abstract

The unit abstract gives the reader an appreciation of the unit in the vocational setting of the qualification, as well as highlighting the focus of the unit. It gives the reader a snapshot of the unit and the key knowledge, skills and understanding gained while studying the unit. The unit abstract also highlights any links to the appropriate vocational sector by describing how the unit relates to that sector.

#### Learning outcomes

The learning outcomes identify what each learner must do in order to pass the unit. Learning outcomes state exactly what a learner should 'know, understand or be able to do' as a result of completing the unit. Learners must achieve all the learning outcomes in order to pass the unit.

#### Unit content

The unit content identifies the breadth of knowledge, skills and understanding needed to design and deliver a programme of learning to achieve each of the learning outcomes. This is informed by the underpinning knowledge and understanding requirements of relevant National Occupational Standards (NOS) where appropriate.

Each learning outcome is stated in full and then the key phrases or concepts related to that learning outcome are listed in italics followed by the subsequent range of related topics.

The information below shows how unit content is structured and gives the terminology used to explain the different components within the content.

- Learning outcome: this is given in bold at the beginning of each section of content.
- Italicised sub-heading: it contains a key phrase or concept. This is content which must be covered in the delivery of the unit. Colons mark the end of an italicised sub-heading.
- Elements of content: the elements are in roman text and amplify the subheading. The elements must also be covered in the delivery of the unit. Semicolons mark the end of an element.
- Brackets contain amplification of elements of content which must be covered in the delivery of the unit.
- 'e.g.' is a list of examples used for indicative amplification of an element (that is, the content specified in this amplification that could be covered or that could be replaced by other, similar material).

It is not a requirement of the unit specification that all of the content is assessed.

Learning outcomes and assessment criteria

Each unit contains statements of the evidence that each learner should produce in order to receive a pass.

#### Guidance

This section provides additional guidance and amplification related to the unit to support tutors/deliverers and assessors. Its subsections are given below.

- Links sets out possible links between units within the specification. Provides
  opportunities for the integration of learning, delivery and assessment. Links to
  relevant National Occupational Standards and Professional Bodies Standards will
  be highlighted here.
- Essential requirements essential, unique physical and/or staffing resources or delivery/assessment requirements needed for the delivery of this unit are specified here.

• Employer engagement and vocational contexts – this is an optional section. Where relevant it offers suggestions for employer contact to enhance the delivery of the unit.

These subsections should be read in conjunction with the learning outcomes, unit content, assessment criteria and the generic grade descriptors.

The centre will be asked to ensure that essential resources are in place when it seeks approval from Pearson to offer the qualification.

#### Learning and assessment

The purpose of assessment is to ensure that effective learning has taken place of the content of each unit. Evidence of this learning, or the application of the learning, is required for each unit. The assessment of the evidence relates directly to the assessment criteria for each unit, supported by the generic grade descriptors.

The process of assessment can aid effective learning by seeking and interpreting evidence to decide the stage that learners have reached in their learning, what further learning needs to take place and how best to do this. Therefore, the process of assessment should be part of the effective planning of teaching and learning by providing opportunities for both the learner and assessor to obtain information about progress towards learning goals.

The assessor and learner must be actively engaged in promoting a common understanding of the assessment criteria and the grade descriptors (what it is they are trying to achieve and how well they achieve it) for further learning to take place. Therefore, learners need constructive feedback and guidance about how they may improve by capitalising on their strengths and clear and constructive comments about their weaknesses and how these might be addressed.

Assessment instruments are constructed within centres. They should collectively ensure coverage of all assessment criteria within each unit and should provide opportunities for the evidencing of all the grade descriptors.

It is advised that assessment criteria and contextualised grade descriptors are clearly indicated on each assessment instrument to provide a focus for learners (for transparency and to ensure that feedback is specific to the criteria) and to assist with internal standardisation processes. Tasks/activities should enable learners to produce evidence that relates directly to the assessment criteria and grade descriptors.

When centres are designing assessment instruments, they need to ensure that the instruments are valid, reliable and fit for purpose, building on the application of the assessment criteria. Centres are encouraged to place emphasis on practical application of the assessment criteria, providing a realistic scenario for learners to adopt, making maximum use of work-related practical experience and reflecting typical practice in the sector concerned. **The creation of assessment instruments that are fit for purpose is vital to achievement.** 

#### **Grading Higher National units**

The grading of BTEC Higher National qualifications is at the unit and the qualification level.

Each successfully completed unit will be graded as a pass, merit or distinction.

A pass is awarded for the achievement of all outcomes against the specified assessment criteria.

Merit and distinction grades are awarded for higher-level achievement. The generic merit and distinction grade descriptors listed in *Annexe C* are for grading the total evidence produced for each unit and describe the learner's performance over and above that for a pass grade.

Each of the generic merit and distinction grade descriptors should be amplified by use of **indicative characteristics** which exemplify the merit and distinction grade descriptors. These give a guide to the expected learner performance, and support the generic grade descriptors. The indicative characteristics should reflect the nature of a unit and the context of the sector programme.

The indicative characteristics shown in the table for each of the generic grade descriptors in *Annexe C* are not exhaustive. Consequently, centres should select appropriate characteristics from the list or construct others that are appropriate for their sector programme and level.

It is important to note that each assessment activity does not need to incorporate all the merit and/or distinction grade descriptors.

#### Contextualising the generic grade descriptors

The generic merit and distinction grade descriptors need to be viewed as a qualitative extension of the assessment criteria for pass within each individual unit. The relevant generic grade descriptors must be identified and specified within an assignment and the relevant indicative characteristics should be used to place the required evidence in context.

Additional guidance on contextualisation of grade descriptors can be found in HN Delivery Guides on the website.

#### **Summary of grades**

In order to achieve a <b>pass</b> in a unit	all learning outcomes and associated assessment criteria have been met	
In order to achieve a <b>merit</b> in a unit		pass requirements achieved all merit grade descriptors achieved and all prescribed indicative characteristics.
In order to achieve a distinction in a unit		pass and merit requirements achieved all distinction grade descriptors achieved and all prescribed indicative characteristics.

#### Calculation of the qualification grade

#### Pass qualification grade

Learners who achieve the minimum eligible credit value specified by the rule of combination will achieve the qualification at a pass grade (see section *Rules of combination for the BTEC Level 4 and 5 Higher National qualifications*). The Rules of combination have been summarised below:

#### **BTEC HNC Diplomas**

To achieve the qualification a learner must:

- achieve at least 120 credits at or above the level of the qualification (a maximum of 55 credits may be at Level 5)
- achieve a minimum of 65 credits at Level 4
- complete a valid combination of units.

#### **BTEC HND Diplomas**

To achieve the qualification a learner must:

- achieve at least 240 credits at or above the level of the qualification
- achieve a minimum of 125 credits at Level 5 or above.

The best valid combination of units is used to calculate the overall grade, e.g. if a learner has completed more than the minimum number of optional units at the appropriate level the best performance from these will be used.

All learners will receive a Notification of Performance showing all unit grades whether or not they were included in the calculation for the overall grade.

#### Qualification grades above pass grade

#### **BTEC HNC Diplomas**

Calculation of the BTEC HNC qualification grade is based on the learner's best performance in units at or above the level of the qualification to the value of 75 credits:

- The best 75 credits must come from a maximum of 120 credits as a valid rule of combination
- The units from which the best 75 credits are selected come from the whole qualification including the mandatory core credit.

This means that credit from some mandatory core units is likely to form part of the best 75 credits in most programmes (the mandatory core credit units will automatically be included in the calculation once the maximum amount of credit for optional specialist units for the rule of combination is used up.)

It is the responsibility of a centre to ensure that a correct unit combination is adhered to.

#### **Qualification grades**

Learners will be awarded a pass, merit or distinction qualification grade using the points gained through the 75 best credits based on unit achievement.

### Unit credit points available for specified unit grades, for either Level 4 or Level 5 units

Unit points per credit					
Pass Merit Distinction					
0	1	2			
Example for level 4 or level 5 unit of 15 credits					
Pass Merit Distinction					
0	15	30			

#### **BTEC Level 4 HNC overall qualification grades**

Points range	Grade	
0-74	Pass	Р
75–149	Merit	М
150	Distinction	D

#### **BTEC HND Diplomas**

The grade achieved in units from an appropriate HNC may contribute to an HND grade.

If a learner moves from HNC to HND, credits at Level 5 or above from both the HNC and HND can contribute to the best 75 credits of the overall HND grade. Note that for HND learners, level 4 units do not count towards the qualification grade.

Calculation of the BTEC HND qualification grade is based on the learner's best performance in units at or above the level of the qualification – i.e. **only units at level 5** can be counted towards the value of 75 credits:

- The best 75 credits must come from a maximum of 240 credits as a valid rule of combination
- The units from which the 75 best credits are selected come from the whole qualification including the mandatory core credit, but must be level 5 units or above.

This means that credit from some mandatory core units is likely to form part of the best 75 credits in most programmes (the mandatory core credit units will automatically be included in the calculation once the maximum amount of credit for optional specialist units for the rule of combination is used up.)

It is the responsibility of a centre to ensure that a correct unit combination is adhered to.

#### **Qualification grades**

Learners will be awarded a pass, merit or distinction qualification grade using the points gained through the 75 best credits based on unit achievement.

#### Unit credit points for specified unit grades at Level 5 only

Unit points per credit				
Pass	Merit	Distinction		
0	1	2		

#### **BTEC Level 5 HND overall qualification grades**

Points range	Grade	
0-74	Pass	Р
75–149	Merit	М
150	Distinction	D

*Annexe E* gives examples of how qualification grades are calculated.

#### **Recognition of Prior Learning**

Recognition of Prior Learning (RPL) is a method of assessment (leading to the award of credit) that considers whether a learner can demonstrate that they can meet the assessment requirements for a unit through knowledge, understanding or skills they already possess and so do not need to develop through a course of learning.

Pearson encourages centres to recognise learners' previous achievements and experiences whether at work, home and at leisure, as well as in the classroom. RPL provides a route for the recognition of the achievements resulting from continuous learning.

RPL enables recognition of achievement from a range of activities using any valid assessment methodology. Provided that the assessment requirements of a given unit or qualification have been met, the use of RPL is acceptable for accrediting a unit, units or a whole qualification. Evidence of learning must be valid and reliable.

For full guidance about Pearson's policy on RPL, please see our *Recognition of Prior Learning Policy and Process* on our website.

## **Quality assurance of BTEC Higher Nationals**

Pearson's quality assurance system for all BTEC higher-level programmes on the QCF at Levels 4–7 will ensure that centres have effective quality assurance processes to review programme delivery. It will also ensure that the outcomes of assessment are to national standards.

The quality assurance process for centres offering BTEC higher-level programmes on the QCF at Levels 4–7 comprises three key components.

#### 1) Approval process

Centres new to the delivery of this programme will be required to seek approval through the existing qualification and centre approval process. Prior to approval being given, centres will be required to submit evidence to demonstrate that they:

- have the human and physical resources required for effective delivery and assessment
- understand the implications for independent assessment and agree to abide by these
- have a robust internal assessment system supported by 'fit for purpose' assessment documentation
- have a system to internally verify assessment decisions, to ensure standardised assessment decisions are made across all assessors and sites.

Such applications have to be supported by the head of the centre (principal, chief executive etc) and include a declaration that the centre will operate the programmes strictly as approved and in line with Pearson requirements.

#### 2) Monitoring of internal centre systems

Centres will be required to demonstrate ongoing fulfilment of the centre approval criteria over time and across all programmes. The process that assures this is external examination, which is undertaken by External Examiners. Centres will be given the opportunity to present evidence of the ongoing suitability and deployment of their systems to carry out the required functions. This includes the consistent application of policies affecting learner registrations, appeals, effective internal examination and standardisation processes. Where appropriate, centres may present evidence of their operation within a recognised code of practice, such as that of the Quality Assurance Agency for Higher Education. Pearson reserves the right to confirm independently that these arrangements are operating to Pearson's satisfaction.

Pearson will affirm, or not, the ongoing effectiveness of such systems. Where system failures are identified, sanctions (appropriate to the nature of the problem) will be applied in order to assist the centre in correcting the problem.

#### 3) Independent assessment review

The internal assessment outcomes reached for all BTEC higher-level programmes on the Qualifications and Credit Framework at Levels 4-7 are subject to an independent assessment review by a Pearson-appointed External Examiner.

The outcomes of this process will be to:

- confirm that internal assessment is to national standards and allow certification
- make recommendations to improve the quality of assessment outcomes before certification is released

or

 make recommendations about the centre's ability to continue to be approved for the qualifications in question.

#### Additional arrangement for ALL centres

Regardless of the type of centre, Pearson reserves the right to withdraw either qualification or centre approval when it deems there is an irreversible breakdown in the centre's ability either to quality assure its programme delivery or its assessment standards.

### **Programme design and delivery**

BTEC Higher National qualifications consist of mandatory core units and specialist units. The specialist units are designed to provide a specific focus to the qualification. Required combinations of specialist units are clearly set out in relation to each qualification in the defined qualification structures provided in this document.

In BTEC Higher National qualifications each unit's credit value usually consists of multiples of 5 credits. Most units are 15 credits in value. These units have been designed from a learning time perspective. **Each 15-credit unit approximates to a learning time of 150 hours**.

It is expected that these BTEC Level 5 HNDs, accredited onto the Qualifications and Credit Framework (QCF), will also require approximately 960 guided learning hours (GLH).

Consequently, using the above approach, the BTEC Level 4 HNCs, are half the size of the BTEC Level 5 Higher National Diplomas which will require approximately 480 GLH.

Within the information relating to these units on the QCF, each 15-credit unit has been allocated a figure of 60 GLH to help guide centres (other units with smaller or larger credit values have figures calculated on a pro rata basis). Centres delivering these qualifications are required to use their professional expertise in their design and delivery within the overall guided learning hours for the qualification.

Guided learning hours are defined as all the time when a tutor, trainer or facilitator is present to give specific guidance towards the learning aim being studied on a programme. This definition includes lectures, tutorials and supervised study in, for example, open learning centres and learning workshops.

Learning time is defined as the time taken by learners at the level of the unit, on average, to complete the learning outcomes of the unit to the standard determined by the assessment criteria. It should address all learning (including assessment) relevant to the learning outcomes, regardless of where, when and how the learning has taken place. It does not include time spent by staff in day-to-day marking of assignments where the learner is not present.

Centres are advised to consider this definition when planning the programme of study associated with this specification.

Annexe D provides information for centres and learners who wish to compare, for teaching and learning purposes, the units of the Pearson Level 5 BTEC Higher Nationals in Vehicle Operations Management (NQF) with the new units of the Pearson BTEC Higher Nationals in Vehicle Operations Management (QCF).

#### Mode of delivery

Pearson does not define the mode of study for the BTEC Higher National qualifications. Centres are free to offer the qualification(s) using any mode of delivery that meets the needs of their learners. This may be through traditional classroom teaching, open learning, distance learning or a combination of these. Whatever mode of delivery is used, centres must ensure that learners have appropriate access to the resources identified in the specification and to the subject specialists delivering the units. This is particularly important for learners studying for the qualification through open or distance learning.

Our 'Distance Learning' and 'Distance Assessment' policies are given on our website.

Learners studying for the qualification on a part-time basis bring with them a wealth of experience that should be utilised to maximum effect by tutors and assessors. Assessment instruments based on learners' work environments should be encouraged. Those planning the programme should aim to enhance the vocational nature of the BTEC Higher National qualification by:

- liaising with employers to ensure that the course is relevant to learners' specific needs
- accessing and using non-confidential data and documents from learners' workplaces
- including sponsoring employers in the delivery of the programme and, where appropriate, in the assessment
- linking with company-based/workplace training programmes
- making full use of the variety of experiences of work and life that learners bring to the programme.

#### Resources

BTEC Higher National qualifications are designed to prepare learners for employment in specific industry sectors.

Physical resources need to support the delivery of the programme and the proper assessment of the outcomes and, therefore, should normally be of industry standard.

Staff delivering programmes and conducting the assessments should be familiar with current practice, legislation and standards used in the sector concerned.

Centres will need to meet any specialist resource requirements when they seek approval from Pearson.

Please refer to the *Essential requirements* section in individual units for specialist resource requirements.

#### **Delivery approach**

It is important that centres develop an approach to teaching and learning that supports the specialist vocational nature of the BTEC Higher National qualification. Specifications contain a balance of practical skill development and knowledge requirements, some of which can be theoretical in nature. Tutors and assessors need to ensure that appropriate links are made between theory and practice and that the knowledge base is applied to the sector. This will require the development of relevant and up-to-date teaching materials that allow learners to apply their learning to actual events and activities within the sector. Maximum use should be made of the learner's experience.

#### Meeting local needs

Centres should note that the qualifications set out in these specifications have been developed in consultation with centres, employers and relevant professional organisations.

The units are designed to meet the skill needs of the sector and the specialist units allow coverage of the full range of employment within the sector. Centres should make maximum use of the choice available to them within the specialist units to meet the needs of their learners, as well as the local skills and training needs.

Where centres identify a specific need that cannot be addressed using the units in this specification, centres can seek approval from Pearson to use units from other BTEC Higher National qualifications on the QCF. Centres will need to justify the need for importing units from other specifications and Pearson will ensure that the vocational focus of the qualification remains the same.

Applications must be made **in advance** of delivery by 31 January in the year of registration (see the website for details).

The flexibility to import standard units from other QCF BTEC Higher National specifications is **limited to a maximum of 30 credits in a BTEC HNC qualification and a maximum of 60 credits only in any BTEC HND qualification**. This is an overall maximum and centres should check the 'Rules of Combination' information for the specific qualification to confirm the actual requirements. These units cannot be used at the expense of the mandatory core units in any qualification nor can the qualification rules of combination level rules be compromised. The centre must ensure that approved units are used only in eligible combinations.

### **Access and recruitment**

Pearson's policy regarding access to our qualifications is that:

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

Centres are required to recruit learners to BTEC Higher National qualifications with integrity. This will include ensuring that applicants have appropriate information and advice about the qualifications and that the qualification will meet their needs. Centres should take appropriate steps to assess each applicant's potential and make a professional judgement about their ability to successfully complete the programme of study and achieve the qualification. This assessment will need to take account of the support available to the learner within the centre during their programme of study and any specific support that might be necessary to allow the learner to access the assessment for the qualification.

Centres will need to review the profile of qualifications and/or experience held by applicants, considering whether this profile shows an ability to progress to level 4 or level 5 qualifications. For learners who have recently been in education, the entry profile is likely to include one of the following:

- a BTEC Level 3 qualification in Business or Vehicle Technology
- a GCE Level profile that demonstrates strong performance in a relevant subject or an adequate performance in more than one GCE subject. This profile is likely to be supported by GCSE grades at A\* to C
- other related level 3 qualifications
- an Access to Higher Education Certificate received from an approved further education institution
- related work experience.

Mature learners may present a more varied profile of achievement that is likely to include extensive work experience (paid and/or unpaid) and/or achievement of a range of professional qualifications in their work sector.

#### **Restrictions on learner entry**

BTEC Higher National qualifications are accredited on the QCF for learners aged 18 years and over.

#### **Equality Act 2010 and Pearson equality policy**

Equality and fairness are central to our work. Our equality policy requires all learners to have equal opportunity to access our qualifications and assessments, and our qualifications are required to be 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 qualifications, disadvantaged in comparison with learners who do not share that characteristic
- all learners achieve the recognition they deserve for undertaking a qualification and that this achievement can be compared fairly to the achievement of their peers.

You can find details on how to make adjustments for learners with protected characteristics in the policy document *Access Arrangements, Reasonable Adjustments and Special Considerations*, available on our website.

An adjustment may not be considered reasonable if it involves unreasonable costs and/or timeframes or affects the security or integrity of the assessment.

There is no duty on awarding organisations to make any adjustment to the Assessment Objectives being tested in an assessment.

#### **English language expectations**

Centres delivering BTEC level 4 to 7 programmes are expected to ensure that all learners who are non-native English speakers or who have not studied the final two years of school in English, can demonstrate capability in English at a standard commensurate with:

- IELTS 5.5, with a minimum of 5.0 being awarded on individual sections for a level 4 or 5 qualification
- IELTS 6.5 for a level 6 or 7 qualification

Pearson's Standard Verifiers (EE) will expect centres to demonstrate that their learners meet these expectations.

#### **Professional body contact details**

Society of Operations Engineers 22 Greencoat Place London SW1P 1PR

Telephone: 020 7630 1111 Email: soe@soe.org.uk Website: www.soe.org.uk

Institute of the Motor Industry (IMI) Fanshaws Brickendon Hertford SG13 8PQ

Telephone: 01992 511 521

Email: comms@theimi.org.uk Website: www. theimi.org.uk

# Professional development and training

Pearson supports UK and international customers with training related to BTEC qualifications. This support is available through a choice of training options offered on our website at: qualifications.pearson.com/en/support/training-from-pearson-uk

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.

#### BTEC 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 other BTEC colleagues in your region.

**Regional support:** our team of Curriculum Development Managers and Curriculum Support Consultants, based around the country, are responsible for providing advice and support in centres. They can help you with planning and curriculum developments.

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

#### **Annexe A**

#### **Qualification Requirements**

#### Rationale

BTEC Higher Nationals using the title Vehicle Operations Management have been developed to focus on:

- the education and training of vehicle operations managers/technicians who are employed at a professional level in a variety of types of managerial/technical work, such as workshop controller, after sales manager, sales manager, fleet engineer, transport manager and vehicle inspector
- providing opportunities for vehicle operations manager/technicians to achieve a nationally recognised Level 4 or Level 5 vocationally specific qualification
- providing opportunities for learners to gain a nationally recognised, vocationally specific qualification, enter employment as a vehicle operations manager/engineer/technician, or progress to higher education vocational qualifications such as a full or part-time degree in management/automotive engineering or a related area
- providing opportunities for learners to focus on the development of the higher level skills in a technological and management context
- providing opportunities for learners to develop a range of skills and techniques essential for success in working life.

#### Aims of the qualification

Qualifications in Vehicle Operations Management meet the needs of the above rationale by:

- developing a range of skills and techniques, personal qualities and attributes
  essential for successful performance in working life, enabling learners to make
  an immediate contribution to employment at the appropriate professional level
- preparing learners for a range of technical and management careers in the vehicle operations sector
- equipping individuals with knowledge, understanding and skills for success in employment in the light, heavy and passenger transport industries
- providing specialist studies relevant to individual vocations and professions in which learners are working or intend to seek employment in vehicle operations and its related industries
- enabling progression to or counting towards an undergraduate degree or further professional qualification in vehicle operations management/automotive engineering or related area
- providing a significant basis for progression to Incorporated Engineer level.

#### **Mandatory curriculum**

The mandatory curriculum will give learners the opportunity to build on previous attainment while allowing them to progress and study a selection of optional curriculum. It will display the following features:

- an opportunity to experience techniques and processes concerned with managing people and resources in vehicle operations
- an awareness of evaluating strategic choices when planning and implementing business objectives in vehicle operations
- use of skills and knowledge developed during the course to select a project and agree specifications, implement and evaluate the project and present the project evaluation
- obtaining accurate information on the requirements for an individual or group project
- project work that draws on the knowledge and practical skills from a range of units in the qualification, that reflects the type of performance expected of a technician, supervisor or manager in the motor industry.

#### **Optional curriculum**

The optional curriculum will give learners the opportunity to specialise, while allowing them to build on learning within the mandatory curriculum. It will display the following features:

- an introduction to the main aspects of business law and legislation relating to the vehicle operations sector
- the introduction of concepts and techniques concerned with managing quality in the vehicle operations sector
- an understanding of the operation of small business enterprises, the strategic processes in SMEs and the implementation of business objectives
- an introduction to the concepts associated with marketing a business in the vehicle service sector and the application of marketing techniques
- an awareness of the principles of health and safety planning and implementation in a vehicle operations environment
- the main areas of legislation and the essential practices relating to the employment of people in vehicle operations
- application of relevant statistical techniques and other quality assurance and management principles
- aspects of fleet operation including vehicle costing, charges and maintenance
- fundamental analytical knowledge and techniques used for analysis, modelling and solution of realistic engineering problems within vehicle operations
- an appreciation of the main aspects of vehicle parts management and the techniques and principles involved in vehicle diagnosis
- advanced aspects of vehicle electronics and computerised systems found on modern vehicles
- the skills required for vehicle fleet operations, including reporting defects, checking vehicle roadworthiness, maintenance planning and vehicle inspection.

#### **Entry prerequisites**

The fundamental principles of Pearson's policy are:

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

Nevertheless it is the responsibility of the centre to recruit with integrity. Centres should therefore:

- provide applicants with appropriate information and advice
- identify applicants' needs
- select on the basis of each applicant's previous qualifications and experience.

BTEC Higher National programmes are intended primarily for those who are in, or plan to enter, employment and who have reached the minimum age of 18. Learners who enter with at least one of the following qualifications are likely to benefit more readily from the programme:

- a Level 3 BTEC Diploma or Extended Diploma in an appropriate discipline
- a GCE level profile that demonstrates strong performance in a relevant subject or an adequate performance in more than one GCE subject. This profile is likely to be supported by GCSE grades at A\* to C.

#### Higher level skills and abilities

Learners will be expected to develop the following skills during the programme of study:

- analysing, synthesising and summarising information critically
- the ability to read and use appropriate literature with a full and critical understanding
- the ability to think independently and solve problems
- the ability to take responsibility for their own learning and recognise their own learning style
- applying subject knowledge and understanding to address familiar and unfamiliar problems
- · designing, planning, conducting and reporting on investigations
- use their knowledge, understanding and skills to evaluate and formulate evidence-based arguments critically and identify solutions to clearly defined problems of a general routine nature

- communicate the results of their study and other work accurately and reliably using a range of specialist techniques
- identify and address their own major learning needs within defined contexts and to undertake guided further learning in new areas
- apply their subject-related and transferable skills in contexts where the scope of the task and the criteria for decisions are generally well defined but where some personal responsibility and initiative is required.

### **Annexe B**

# National Occupational Standards (NOS)

Mapping against the Level 4 NOS in Maintenance and Repair, Level 4 NOS in Business Improvement Techniques, Level 4 NOS in Vehicle Damage Assessment and Level 4 NOS in Engineering Management

underpinning knowledge of the Level 4 NOS in Maintenance and Repair, Level 4 NOS in Business Improvement Techniques, Level 4 NOS in The grid below maps the knowledge covered in the Pearson BTEC Higher Nationals in Vehicle Operations Management (QCF) against the Vehicle Damage Assessment and Level 4 NOS in Engineering Management.

### ΚEΥ

Relevant NOS units are listed where the BTEC unit provides partial coverage of the underpinning knowledge and understanding.

A blank space indicates no coverage of the underpinning knowledge.

						BTEC HN unit	N unit					
NOS	t JinU	S JinU	£ tinU	₽ JinU	Z JinU	9 JinU	√ JinU	8 JinU	9 Jiu	Onit 10	II JinU	St JinU
Level 4 NOS in Maintenance and Repair – Light Vehicle				Units G11, G12						Unit LV06		
Level 4 NOS in Business Improvement Techniques								Unit 11				

						BTEC	BTEC HN unit					
SON	E1 JinU	₽ĭ JinU	21 JinU	91 JinU	<b>₹1 JinU</b>	81 JinU	61 JinU	OS JinU	12 JinU	SS JinU	ES JinU	₽Z JinU
Level 4 NOS in Vehicle Damage Assessment							Units G8, VDA1, VDA2, VDA3, VDA4		Units VDA1, VDA2, VDA3,			

						BTEC	BTEC HN unit					
SON	2S JinU	92 JinU	√S JinU	82 JinU	es JinU	0£ JinU	15 JinU	SE JinU	EE JinU	₽£ JinU	25 JinU	
Level 4 NOS in Engineering Management			Units 5,									

### **Annexe C**

### **Grade descriptors**

### Pass grade

A **pass grade** is achieved by meeting all the requirements defined in the assessment criteria for pass for each unit.

### **Merit grade**

Merit grade descriptors	Exemplar indicative characteristics  Centres can identify and use other relevant characteristics. This is NOT a tick list.
In order to achieve a <b>merit</b> the learner must:	The learner's evidence shows, for example:
identify and apply	effective judgements have been made
strategies to find appropriate solutions	complex problems with more than one variable have been explored
	an effective approach to study and research has been applied
select/design and	relevant theories and techniques have been applied
apply appropriate methods/techniques	<ul> <li>a range of methods and techniques have been applied</li> </ul>
	a range of sources of information has been used
	<ul> <li>the selection of methods and techniques/sources has been justified</li> </ul>
	the design of methods/techniques has been justified
	<ul> <li>complex information/data has been synthesised and processed</li> </ul>
	appropriate learning methods/techniques have been applied
present and	the appropriate structure and approach has been used
communicate appropriate findings	• coherent, logical development of principles/concepts for the intended audience
	a range of methods of presentation have been used and technical language has been accurately used
	<ul> <li>communication has taken place in familiar and unfamiliar contexts</li> </ul>
	<ul> <li>the communication is appropriate for familiar and unfamiliar audiences and appropriate media have been used.</li> </ul>

### **Distinction grade**

Distinction grade descriptors	Exemplar indicative characteristics  Centres can identify and use other relevant characteristics. This is NOT a tick list.
In order to achieve a distinction the learner must:	The learner's evidence shows, for example:
<ul> <li>use critical reflection to evaluate own work and justify valid</li> </ul>	<ul> <li>conclusions have been arrived at through synthesis of ideas and have been justified</li> <li>the validity of results has been evaluated using</li> </ul>
conclusions	defined criteria  self-criticism of approach has taken place
	realistic improvements have been proposed against defined characteristics for success
• take responsibility for	autonomy/independence has been demonstrated
managing and organising activities	substantial activities, projects or investigations have been planned, managed and organised
	activities have been managed
	the unforeseen has been accommodated
	the importance of interdependence has been recognised and achieved
• demonstrate	ideas have been generated and decisions taken
convergent/lateral/ creative thinking	self-evaluation has taken place
creative timining	convergent and lateral thinking have been applied
	problems have been solved
	innovation and creative thought have been applied
	receptiveness to new ideas is evident
	effective thinking has taken place in unfamiliar contexts.

### **Annexe D**

### **Unit mapping overview**

QCF versions of the BTEC Higher National units in Vehicle Operations Management (specification start date 01/09/2011) are mapped against the NQF BTEC Higher National units in Vehicle Operations Management (specification end date 31/12/2010), in the following tables:

Unit number	QCF unit title	Maps to NQF unit number	Level of similarity between units
1	Business Planning for Vehicle Operations	5	F
2	Managing Resources in Vehicle Operations	2	F
3	Project Design, Implementation and Evaluation	4	F
4	Managing People in Vehicle Operations	1	F
5	Finance for Vehicle Operations	3	F
6	Business Law for Vehicle Operations	6	Р
7	Customer Services in Vehicle Operations	7	F
8	Managing Quality in Vehicle Operations	9	F
9	Marketing Vehicle Operations	13	F
10	Vehicle Fault Diagnosis	23	F
11	Vehicle Systems and Technology	25	F
12	Plan and Co-ordinate Vehicle Maintenance	19	F
13	Automotive Accident Investigation	27	F
14	Vehicle Electronics	24	F
15	Business Strategy Planning for Vehicle Operations	10	F
16	Engine and Vehicle Design and Performance	31	F
17	Vehicle Parts Management	21	F

Unit number	QCF unit title	Maps to NQF unit number	Level of similarity between units
18	Quantitative Techniques for Vehicle Operations	16	F
19	Fleet Transport Operations	18	F
20	Vehicle Damage Assessment	26	F
21	Transport Legislation	17	F
22	Motor Insurance Principles	20	F
23	Working With and Leading People	N/A	N
24	Small Business Enterprise	N/A	N
25	Organisations and Behaviour	N/A	N
26	Employability Skills	N/A	N
27	Personal and Professional Development	N/A	N
28	Research Project	N/A	N
29	Work-based Experience	N/A	N
30	Financial Accounting and Reporting	N/A	N
31	Managing Business Activities to Achieve Results	N/A	N
32	Mechanical Principles	30	F
33	Electrical and Electronic Principles	N/A	N
34	Analytical Methods for Engineers	28	F
35	Engineering Science	29	F

### **KEY**

- P Partial mapping (some topics from the old unit appear in the new unit)
- F Full mapping (topics in old unit match new unit exactly or almost exactly)
- X Full mapping + new (all the topics from the old unit appear in the new unit, but new unit also contains new topic(s))
- N New unit

## Unit mapping in depth

QCF versions of the BTEC Higher National units in Vehicle Operations Management (specification start date 01/09/2011) are mapped against the NQF BTEC Higher National units in Vehicle Operations Management (specification end date 31/12/2010).

New QCF units	units	NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
1	Business Planning for Vehicle Operations	5	Business Planning	Full mapping
2	Managing Resources in Vehicle Operations	2	Managing Resources	Full mapping
3	Project Design, Implementation and Evaluation	4	Project	Full mapping
4	Managing People in Vehicle Operations	1	Managing People	Full mapping
5	Finance for Vehicle Operations	3	Finance for Vehicle Operations	Full mapping
9	Business Law for Vehicle Operations	9	Business Law for Vehicle Operations	Full mapping
7	Customer Services in Vehicle Operations	7	Customer Services in Vehicle Operations	Full mapping
8	Managing Quality in Vehicle Operations	6	Managing Quality in Vehicle Operations	Full mapping
6	Marketing Vehicle Operations	13	Marketing Vehicle Operations	Full mapping

New OCF units	units	NOF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
10	Vehicle Fault Diagnosis	23	Vehicle Fault Diagnosis	Full mapping
11	Vehicle Systems and Technology	25	Advanced Vehicle Technology	Full mapping
12	Plan and Co-ordinate Vehicle Maintenance	19	Plan and Co-ordinate Vehicle Maintenance	Full mapping
13	Automotive Accident Investigation	27	Accident Reconstruction	Full mapping
14	Vehicle Electronics	24	Vehicle Electronics	Full mapping
15	Business Strategy Planning for Vehicle Operations	10	Business Strategy for Vehicle Operations	Full mapping
16	Engine and Vehicle Design and Performance	31	Vehicle Engineering Principles	Full mapping
17	Vehicle Parts Management	21	Vehicle Parts Management	Full mapping
18	Quantitative Techniques for Vehicle Operations	16	Quantitative Techniques for Vehicle Operations	Full mapping
19	Fleet Transport Operations	18	Fleet Transport Operations	Full mapping
20	Vehicle Damage Assessment	26	Vehicle Damage Assessment	Full mapping
21	Transport Legislation	17	Transport Legislation	Full mapping
22	Motor Insurance Principles	20	Insurance Principles	Full mapping

New QCF units	units	NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
23	Working With and Leading People	N/A		New unit
24	Small Business Enterprise	N/A		New unit
25	Organisations and Behaviour	N/A		New unit
26	Employability Skills	N/A		New unit
27	Personal and Professional Development	N/A		New unit
28	Research Project	N/A		New unit
29	Work-based Experience	N/A		New unit
30	Financial Accounting and Reporting	N/A		New unit
31	Managing Business Activities to Achieve Results	N/A		New unit
32	Mechanical Principles	30	Mechanical Principles	Full mapping
33	Electrical and Electronic Principles	N/A		New unit
34	Analytical Methods for Engineers	28	Analytical Methods for Engineers	Full mapping
35	Engineering Science	29	Engineering Science	Full mapping

### **Annexe E**

### Calculation of the qualification grade

### Pass qualification grade

Learners who achieve the minimum eligible credit value specified by the rule of combination will achieve the qualification at pass grade (see section *Rules of combination for BTEC Levels 4 and 5 Higher National qualifications*).

### Qualification grades above pass grade

Learners will be awarded a merit or distinction qualification grade by the aggregation of points gained through the successful achievement of individual units. The graded section of both qualifications is based on the learner's best performance in units at the level or above of the qualification to the value of 75 credits.

The number of points available is dependent on the unit grade achieved and the credit size of the unit (as shown in the table below).

### Points available per credit at specified unit grades

	Points per credit	
Pass	Merit	Distinction
0	1	2

So a 15 credit unit awarded a merit grade will gain 15 points.

### **Qualification grades**

### **BTEC Level 4 HNC**

Points range	Grade	
0-74	Pass	Р
75-149	Merit	М
150	Distinction	D

### **BTEC Level 5 HND**

Points range	Grade				
0-74	Pass	Р			
75-149	Merit	М			
150	Distinction	D			

These are some examples of how the HNC Diploma grades are calculated:

Example 1: Achievement of a BTEC HNC Diploma with Pass grade

		Level	Credit	Grade	Grade points	Points per unit (weighting × credit points)	
Unit 1	Mandatory core unit	4	15	Р	0		
Unit 2	Mandatory core unit	4	15	Р	0		
Unit 3	Mandatory core unit	4	15	М	1	15	
Unit 4	Mandatory core unit	4	15	М	1	15	
Unit 15	Specialist unit	5	15	Р	0		
Unit 17	Specialist unit	5	15	Р	0		
Unit 18	Specialist unit	4	15	М	1	15	
Unit 12	Specialist unit	4	15	М	1	15	
Unit 14	Specialist unit	4	10	D	2	20	
	Qualification total requirement 120		130			60 <b>T</b>	

Unit 14 is not included as it is an additional unit on top of the 120 credit qualification

The learner can only include the points from the best 75 out of 120 credits in a valid combination.

**Example 2: Achievement of a BTEC HNC Diploma with Merit grade** 

		Level	Credit	Grade	Grade points	Points per unit (weighting × credit points)
Unit 1	Mandatory core unit	4	15	М	1	15
Unit 2	Mandatory core unit	4	15	Р	0	
Unit 3	Mandatory core unit	4	15	М	1	15
Unit 4	Mandatory core unit	4	15	Р	0	
Unit 15	Specialist unit	5	15	Р	0	
Unit 9	Specialist unit	4	15	М	1	15
Unit 18	Specialist unit	4	15	М	1	15
Unit 12	specialist unit	4	15	М	1	15
	Qualification total requirement 120		120			75 ▼

The best 75 credits include both core and optional units.

The learner has sufficient points for a merit.

**Example 3: Achievement of an HNC Diploma with Distinction grade** 

		Level	Credit	Grade	Grade points	Points per unit (weighting × credit points)
Unit 1	Mandatory core unit	4	15	М	1	(15)
Unit 2	Mandatory core unit	4	15	Р	0	
Unit 3	Mandatory core unit	4	15	D	2	30
Unit 4	Mandatory core unit	4	15	Р	0	
Unit 15	Specialist unit	4	15	D	2	30
Unit 17	Specialist unit	4	15	D	2	30
Unit 9	Specialist unit	4	15	D	2	30
Unit 12	Specialist unit	4	15	D	2	30
	Qualification total requirement- 120		120		,	150

The learner has grade points in more than 75 credits. The best performance is used to calculate the grade.

These can be level 4/5 for the HNC

The learner has enough points for a Distinction from 75 credits.

### **Examples for the HND Diploma:**

The tables below give examples of how the overall grade is determined.

Only points from units at or above the level of the qualification can be counted towards the grade.

Examples used are for illustrative purposes only. Other unit combinations are possible.

Example 1: Achievement of an HND Diploma with a pass grade

		Level	Credit	Grade	Grade points	Points per unit (weighting x credit points)
Unit 1	Mandatory core unit	4	15	Р	Х	(15)
Unit 2	Mandatory core unit	4	15	М	X	
Unit 3	Mandatory core unit	4	15	М	X	30
Unit 4	Mandatory core unit	4	15	М	Х	
Unit 5	Mandatory core unit	4	15	М	Х	
Unit 6	Mandatory core unit	5	15	Р	0	
Unit 7	Mandatory core unit	5	15	М	1	15
Unit 8	Mandatory core unit	5	20	Р	0	
Unit 20	Specialist unit	5	15	М	1	15
Unit 21	Specialist unit	5	15	Р	0	
Unit 23	Specialist unit	5	15	Р	0	
Unit 25	Specialist unit	4	15	Р	Х	
Unit 26	Specialist unit	5	15	М	1	15
Unit 29	Specialist unit	4	15	М	Х	
Unit 33	Specialist unit	4	15	М	Х	
Unit 35	Specialist unit	5	15	М	1	15
	Qualification grade totals	Min 125 at level 5	245			60 <b>₹</b>

Count the points from level 5 units for the best 75 credits
X these units are **below** the level of the HND Diploma so not counted for grading

The learner has sufficient points for a pass grade.

Example 2

Achievement of an HND Diploma with a Merit grade

		Level	Credit	Grade	Grade points	Points per unit (weighting × credit points)
Unit 1	Mandatory core unit	4	15	Р	Х	
Unit 2	Mandatory core unit	4	15	М	Х	
Unit 3	Mandatory core unit	4	15	М	Х	
Unit 4	Mandatory core unit	4	15	М	Х	
Unit 5	Mandatory core unit	4	15	М	Х	
Unit 6	Mandatory core unit	5	15	М	1	15
Unit 7	Mandatory core unit	5	15	D	2	30
Unit 8	Mandatory core unit	5	20	D	2	40
Unit 20	Specialist unit	5	15	М	1	15
Unit 21	Specialist unit	5	15	М	1	(15)
Unit 23	Specialist unit	5	15	Р	0	
Unit 25	Specialist unit	4	15	Р	Х	
Unit 26	Specialist unit	5	15	М	1	(15)
Unit 29	Specialist unit	4	15	М	Х	
Unit 33	Specialist unit	4	15	М	Х	
Unit 35	Specialist unit	5	15	М	1	(15)
Unit 36	Specialist unit	5	10	D	2	20
	Qualification grade totals	Min 125 at level 5	260			105 ▼

The learner can be considered for a merit: only count the points from the best 75 credits from a valid combination of 240 credits X these units are **below** the level of the qualification so **cannot** be counted for grading The best 75 credits include both mandatory core and optional units () these units are not counted in the overall score

The learner has sufficient points for a merit grade.

Example 3

### Achievement of an HND Diploma with a distinction grade

		Level	Credit	Grade	Grade points	Points per unit (weighting × credit points)
Unit 1	Mandatory core unit	4	15	Р	X	
Unit 2	Mandatory core unit	4	15	М	Х	
Unit 3	Mandatory core unit	4	15	D	Х	
Unit 4	Mandatory core unit	4	15	D	Х	-
Unit 5	Mandatory core unit	4	15	М	Х	
Unit 6	Mandatory core unit	5	15	D	2	30
Unit 7	Mandatory core unit	5	15	D	2	30
Unit 8	Mandatory core unit	5	20	D	2	30
Unit 20	Specialist unit	5	15	D	2	30
Unit 21	Specialist unit	5	15	D	2	30
Unit 23	Specialist unit	5	15	Р	0	
Unit 25	Specialist unit	4	15	Р	Х	
Unit 26	Specialist unit	5	15	М	1	(15)
Unit 29	Specialist unit	4	15	М	Х	
Unit 33	Specialist unit	4	15	М	Х	
Unit 35	Specialist unit	5	15	М	1	(15)
Unit 36	Specialist unit	4	15	Р	Х	
	Qualification grade totals	Min 125 at level 5	245			150 ▼

The learner can be considered for a distinction: only count the points from level 5 units for the best 75 credits from a valid combination of 240 credits () these units are not counted in the overall score X not counted as below the level of the

qualification.

The learner has sufficient points for a distinction grade.

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