



ANIMAL MANAGEMENT Specification

LEVEL

4

HNC

5

HND



Issue 2
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Edexcel BTEC Level 4 HNC Diploma in Animal Management

Edexcel BTEC Level 5 HND Diploma in Animal Management

The Qualifications and Credit Framework (QCF) has been 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 new framework we have taken the opportunity to revise the academic level and size of the Edexcel 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 Edexcel BTEC HNDs (Higher National Diplomas) which are a minimum of 240 credits in size and remain level 5 qualifications.

The qualifications remain as Intermediate level qualifications on the Framework for Higher Education Qualifications (FHEQ). Progression to Edexcel BTEC Higher Nationals continues to be from level 3 qualifications and progression from Edexcel 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 enrolls for an HNC they would be eligible to gain a grade for the HNC. If they then move to 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 Edexcel BTEC Higher Nationals.

Edexcel 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), eg EdD
7	Master's degrees Postgraduate diplomas Postgraduate Certificate in Education (PGCE)
6	Bachelor's degrees, eg BA, BSc Professional Graduate Certificate in Education Graduate certificates and diplomas
5	Edexcel BTEC HNDs (Higher National Diplomas) Foundation Degrees, eg FdA, FdSc Diplomas of Higher Education (Dip HE)
4	Edexcel BTEC HNCs (Higher National Certificates) Certificates of Higher Education (Cert HE) Level 4 National Vocational Qualifications (NVQs)
3	Edexcel BTEC Level 3 Extended Diplomas Edexcel BTEC Level 3 Diplomas Edexcel BTEC Level 3 Subsidiary Diplomas Edexcel BTEC Level 3 Certificates GCE Advanced Level Level 3 Work-based Diplomas Advanced Diplomas

UNITS

The units for the Edexcel BTEC Higher Nationals in Animal Management are available from the Edexcel website.

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Qualification titles covered by this specification

Edexcel BTEC Level 4 HNC Diploma in Animal Management (QCF)

Edexcel BTEC Level 5 HND Diploma in Animal 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 Edexcel. 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.

Centres are reminded that The Report of the National Committee of Inquiry into Higher Education (the Dearing Report) recommended that they *'develop, for each programme they offer, a 'programme specification' which identifies potential stopping-off points and gives the intended outcomes of the programme ...'*

The Quality Assurance Agency for Higher Education (QAA) has produced guidelines for centres in preparing programme specifications (reference *Guidelines for preparing programme specifications*: QAA 115 06/06) which includes related post-Dearing developments. Annexe 2: *Working with programme specifications: a leaflet for further education colleges* of this QAA document contains additional guidance notes to support further education colleges writing programme specifications for Edexcel awards.

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 qualifications in this publication are:

600/2157/3 Edexcel BTEC Level 4 HNC Diploma in Animal Management (QCF)

600/2158/5 Edexcel BTEC Level 5 HND Diploma in Animal Management (QCF)

Introduction

This specification contains the units and associated guidance for the QCF Edexcel BTEC Level 4 HNC Diploma in Animal Management and the Edexcel BTEC Level 5 HND Diploma in Animal Management.

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 Edexcel's policies regarding access to its qualifications, the design of programmes of study and delivery modes.

Structure of the qualifications

Edexcel BTEC Level 4 HNC Diploma in Animal Management

The Edexcel BTEC Level 4 HNC Diploma in Animal Management is a qualification with a minimum of 120 credits of which 65 credits are mandatory core.

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

Edexcel BTEC Level 5 HND Diploma in Animal Management

The Edexcel BTEC Level 5 HND Diploma in Animal Management is a qualification with a minimum of 240 credits of which 80 credits are mandatory core.

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

Rules of combination for Edexcel BTEC Levels 4 and 5 Higher National qualifications in Animal Management

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 Edexcel BTEC Higher National qualifications.

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

Edexcel BTEC Level 4 HNC in Animal Management

- 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: 65 credits.
- 4 Specialist unit credit: 55 credits.
- 5 A maximum of 30 credits can be centre devised or imported from other QCF Edexcel BTEC Higher National qualifications to meet local needs. Level rules and mandatory core units must not be changed.

Edexcel BTEC Level 5 HND in Animal Management

- 1 Qualification credit value: a minimum of 240 credits.
- 2 Minimum credit to be achieved at the level of the qualification (level 5): 125 credits.
- 3 Mandatory core unit credit: 60.
- 4 Specialist unit credit: 160 credits.
- 5 The requirements of the HNC have to be met*.
- 6 A maximum of 60 credits can be centre devised or imported from other QCF Edexcel BTEC Higher National qualifications to meet local needs. Level rules and mandatory core units must not be changed.

* This excludes achievement of *Unit 5: Research Project* which is optional at HND.

Structure of the Edexcel BTEC Level 4 HNC in Animal Management

The Edexcel BTEC Level 4 HNC in Animal Management is a 120-credit qualification that consists of 65 mandatory credits, including a minimum of 45 credits from Group A and remaining credits from Groups A or B (subject to a maximum of 15 credits from Group B) that together provide for a combined minimum of 120 credits.

Unit number	Mandatory core units – all 65 credits must be taken	Unit credit	Unit level
1	Business Environment	15	4
2	Animal Husbandry Management	15	5
3	Animal Health and Welfare	15	5
5	Research Project	20	5
	Group A		
4	Animal Nutrition	15	4
6	Work-based Experience	15	5
7	Biological Principles	15	5
8	Horse Husbandry	15	4
9	Principles of Ecology	15	4
10	Anatomy and Physiology	15	4
11	Animal Behaviour	15	5
12	Genetics and their Application	15	5
13	Animal Law and Ethics	15	5
14	Animal Industry and Trade	15	5
15	Principles of Animal Health	15	5
16	Management of Animal Collections	15	5
17	Fish, Game and Wildlife Management	15	4
18	Animal Nursing	15	4
19	Production Animal Management	15	4
20	Exotics and the Pet Trade	15	4
21	Aquatics and Fishkeeping	15	5
22	Human Animal Interactions	15	5
23	Animal Adaptations	15	5
24	Natural History of Exotic Mammals	15	5
25	Manage Animals in Education and Entertainment	10	4
26	Manage the Training of Animals	15	5
27	Plan and Manage the Health and Welfare of Animals	10	4

Unit number	Group A (continued)	Unit credit	Unit level
28	Plan, Monitor and Evaluate the Nutrition of Animals	10	4
29	Plan and Manage Breeding Programmes for Animals	10	4
30	Health and Safety in the Land-based Workplace	15	4
	Group B - choose a maximum of 15 credits from this group		
31	Environmental Management	15	5
32	Sustainable Development	15	5
33	Project Management for Land-based Industries	15	4
34	Small Business Enterprise	15	5
35	Land Use Issues and Regulation	15	5
36	Teaching a Specialist Subject	15	4
37	Environmental Education and Interpretation	15	5
38	Employability Skills	15	5
39	Research Methods for Land-based Industries	15	4
40	Visitor Attraction Management	15	4
41	Human Resource Management	15	4

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

Structure of the Edexcel BTEC Level 5 HND in Animal Management

The Edexcel BTEC Level 5 HND in Animal Management is a 240-credit qualification that consists of four mandatory units plus a minimum of one unit from Group A and remaining units from Groups A, B or C (subject to a maximum of 45 credits from Group C) that together provide for a combined minimum of 240 credits.

Unit number	Mandatory core units – all 60 credits must be taken	Unit credit	Unit level
1	Business Environment	15	4
2	Animal Husbandry Management	15	5
3	Animal Health and Welfare	15	5
4	Animal Nutrition	15	4
	Group A – choose a minimum of 15 credits		
5	Research Project	20	5
6	Work-based Experience	15	5
	Group B		
7	Biological Principles	15	5
8	Horse Husbandry	15	4
9	Principles of Ecology	15	4
10	Anatomy and Physiology	15	4
11	Animal Behaviour	15	5
12	Genetics and their Application	15	5
13	Animal Law and Ethics	15	5
14	Animal Industry and Trade	15	5
15	Principles of Animal Health	15	5
16	Management of Animal Collections	15	5
17	Fish, Game and Wildlife Management	15	4
18	Animal Nursing	15	4
19	Production Animal Management	15	4
20	Exotics and the Pet Trade	15	4
21	Aquatics and Fishkeeping	15	5
22	Human Animal Interactions	15	5
23	Animal Adaptations	15	5
24	Natural History of Exotic Mammals	15	5
25	Manage Animals in Education and Entertainment	10	4
26	Manage the Training of Animals	15	5

Unit number	Group B (continued)	Unit credit	Unit level
27	Plan and Manage the Health and Welfare of Animals	10	4
28	Plan, Monitor and Evaluate the Nutrition of Animals	10	4
29	Plan and Manage Breeding Programmes for Animals	10	4
30	Health and Safety in the Land-based Workplace	15	4
	Group C- choose a maximum of 45 credits from this group		
31	Environmental Management	15	5
32	Sustainable Development	15	5
33	Project Management for Land-based Industries	15	4
34	Small Business Enterprise	15	5
35	Land Use Issues and Regulation	15	5
36	Teaching a Specialist Subject	15	4
37	Environmental Education and Interpretation	15	5
38	Employability Skills	15	5
39	Research Methods for Land-based Industries	15	4
40	Visitor Attraction Management	15	4
41	Human Resource Management	15	4

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

Key features

Edexcel BTEC Higher Nationals are designed to provide specialist vocational programmes, 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 Edexcel 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 Edexcel BTEC Higher National units to the degree programme in question.

Edexcel BTEC Higher Nationals in Animal Management have been developed to focus on:

- the education and training for a range of careers in animal management and allied land-based industries
- opportunities for those employed within these industries to achieve a nationally recognised higher level vocationally specific qualification
- opportunities for full-time learners to gain a nationally recognised vocationally specific higher level qualification to enter employment within these industries at supervisory or management level or to progress to higher education vocational qualifications such as a full-time degree in animal management or a related subject area
- expansion of the knowledge, understanding and skills of learners from an animal management or allied industry supervisor's or manager's viewpoint
- opportunities for learners to concentrate on the development of higher-level skills in a land-based context, and how their role and that of their business fits within the overall structure of the land-based industries, the national and international economy and the global overview
- opportunities for learners to develop a range of skills, techniques and attributes essential for successful performance in working life.

This qualification meets the needs of the above rationale by:

- giving individuals knowledge, understanding and skills for successful employment in the animal management and allied industries
- enabling progression to an undergraduate degree or further professional qualifications in related areas
- providing opportunities for specialist study relevant to individual vocations and contexts
- developing the individual's ability in the animal management and allied industries through effective use and combination of the knowledge and skills gained in different parts of the programme
- developing a range of skills and techniques, personal qualities and attributes essential for successful performance in working life and thereby enabling learners to make an immediate contribution to employment
- providing flexibility, knowledge, skills and motivation as a basis for future studies and career development in the animal management and allied industries.

Professional body recognition

The Edexcel BTEC Higher Nationals in Animal Management have been developed with career progression and recognition by professional bodies in mind. It is essential that learners gain the maximum benefit from their programme of study.

Learners who have an HNC/D in Biological Science and who have had experience in responsible work in biological science or its application for at least five years subsequent to or seven years prior to the award are eligible to apply for membership of the Institute of Biology.

Further details of professional body recognition and exemptions for Edexcel BTEC Higher Nationals are given in the *BTEC Higher Nationals – Professional Recognition and Progression Directory 2008* available from our website: www.edexcel.com/quals/hn/Pages/Keydocuments.aspx.

National Occupational Standards

Edexcel BTEC Higher Nationals in Animal Management are designed to relate to the National Occupational Standards in the environmental and land-based sector, which in turn form the basis of the Animal Care and Welfare National Vocational Qualifications (NVQs). Edexcel BTEC Higher Nationals do not purport to deliver occupational competence in the sector, which should be demonstrated in a work context. However, the qualifications provide underpinning knowledge for the National Occupational Standards, as well as developing practical skills in preparation for work and possible achievement of NVQs in due course.

Annexe B contains mapping of the Higher National units in this specification against relevant National Occupational Standards where appropriate.

Qualification Requirement

Edexcel has published Qualification Requirements as part of the revision of Edexcel BTEC Higher Nationals. Qualification Requirements set out the aims and rationale of the qualifications and provide the framework of curriculum content. They also identify the higher-level skills associated with the qualifications and any recognition by relevant professional bodies. The Qualification Requirement for the Edexcel BTEC Higher Nationals in Animal Management is given in *Annexe A*.

Edexcel standard specification titles are developed from the Qualification Requirements. Licensed centres comply with Qualification Requirements when developing Higher Nationals under these standard titles.

Qualification Requirements provide consistent standards within the same vocational area and identify the skills and knowledge that can be expected of any holder of an identical Edexcel BTEC Higher National. This will allow higher education institutions, employers and professional bodies to confidently provide progression opportunities to successful learners.

Higher-level skills

Learners studying for Edexcel BTEC Higher Nationals in Animal Management will be expected to be able to do the following:

- analyse, synthesise and summarise information critically
- read and use appropriate literature with a full and critical understanding
- think independently, solve problems and devise innovative solutions
- take responsibility for their own learning and recognise their own learning style
- apply subject knowledge and understanding to address familiar and unfamiliar problems
- design, plan, conduct and report 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 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

Edexcel BTEC Level 4 HNC

The Edexcel BTEC Level 4 HNC in Animal Management provides a specialist work-related programme of study that covers the key knowledge, understanding and practical skills required in the animal management sector and also offers specialist emphasis through the choice of specialist units.

Edexcel BTEC Level 4 HNCs provide nationally recognised qualifications offering career progression and professional development for those already in employment and opportunities to progress into higher education. The qualifications are mode free but they 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 Edexcel BTEC Level 4 HNC in Animal Management offers a progression route for learners who are employed in the animal management and welfare sector.

Edexcel BTEC Level 5 HND

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

The Edexcel BTEC Level 5 HND in Animal Management 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 animal management and welfare 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 animal management and welfare or progress into higher education. Other learners may want to extend the specialism that they followed on the Edexcel BTEC Level 4 HNC programme.

Progression from this qualification may well be into or within employment in the animal management and welfare sector where learners may work towards membership of The Institute of Biology.

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 an Edexcel BTEC Level 4 HNC and a minimum of 240 credits (of which at least 125 must be at level 5) to be awarded an Edexcel BTEC Level 5 HND.

The assessment of Edexcel 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 Edexcel 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.

NB Any level 3 units in Edexcel BTEC Higher National specifications will appear as they are found in the relevant level 3 specifications (minus references to personal, learning and thinking skills [PLTS] and functional skills [FS].) This means that their format and assessment requirements will be slightly different to level 4 and level 5 units. 'Links' within the level 3 units will relate to units found in the level 3 specification and not to those within the level 4 and level 5 specifications.

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 Edexcel 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 sub-heading. The elements must also be covered in the delivery of the unit. Semi-colons mark the end of an element.
- Brackets contain amplification of elements of content which must be covered in the delivery of the unit.
- 'eg' 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 Edexcel to offer the qualification.

Learning and assessment

The purpose of assessment is to ensure that effective learning of the content of each unit has taken place. 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 and their importance cannot be over-emphasised.

Grading Higher National units

The grading of Edexcel 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. They can be achieved in a flexible way, for example in a sequential or holistic mode, to reflect the nature of the sector concerned.

Each of the generic merit and distinction grade descriptors can be amplified by use of **indicative characteristics**. 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.

Summary of grades

In order to achieve a pass in a unit	<ul style="list-style-type: none">all learning outcomes and associated assessment criteria have been met
In order to achieve a merit in a unit	<ul style="list-style-type: none">pass requirements achievedall merit grade descriptors achieved
In order to achieve a distinction in a unit	<ul style="list-style-type: none">pass and merit requirements achievedall distinction grade descriptors achieved

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 the Edexcel 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 the HNC and the HND 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 'Points available per credit at specified unit grades' table below).

Points available per credit at specified unit grades

Points per credit		
Pass	Merit	Distinction
0	1	2

Qualification grades

Edexcel BTEC Level 4 HNC

Points range	Grade	
0-74	Pass	P
75-149	Merit	M
150	Distinction	D

Edexcel BTEC Level 5 HND

Points range	Grade	
0-74	Pass	P
75-149	Merit	M
150	Distinction	D

Annexe E gives examples of how qualification grades are calculated.

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

If a learner moves from HNC to HND then credits from both the HNC and HND can contribute to the best 75 credits of the overall HND grade.

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.

Edexcel 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 Edexcel's policy on RPL please see our *Recognition of Prior Learning Policy* on our website. Please go to <http://www.edexcel.com/Policies/Documents/Recognition of Prior Learning.pdf>

Quality assurance of Edexcel BTEC Higher Nationals

Edexcel'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 Edexcel BTEC higher level programmes on the QCF at Levels 4–7 comprises three key components.

1) Approval process

Approval to offer Edexcel BTEC Higher National qualifications will vary depending on the status of the centre.

Centres that have a recent history of delivering Edexcel BTEC Higher National qualifications and have an acceptable quality profile in relation to their delivery will be able to gain approval through Edexcel Online.

Centres new to the delivery of Edexcel BTEC Higher National qualifications will be required to seek approval through the existing Edexcel 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 Edexcel 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 Edexcel's 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. Edexcel reserves the right to confirm independently that these arrangements are operating to Edexcel's satisfaction.

Edexcel 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 Edexcel BTEC higher level programmes on the Qualifications and Credit Framework at Levels 4-7 are subject to an independent assessment review by an Edexcel-appointed External Examiner.

The outcomes of this process will be to:

- confirm that internal assessment is to national standards and allow certification

or

- 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, Edexcel 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

Edexcel 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 Edexcel 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.**

These new Edexcel BTEC Level 5 HND qualifications are the same size as the Edexcel Level 5 BTEC Higher National Diplomas which were accredited onto the National Qualifications Framework (NQF). Therefore, it is expected that these Edexcel 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 new Edexcel BTEC Level 4 HNCs, which are accredited onto the QCF, and are now half the size of the Edexcel BTEC Level 5 Higher National Diplomas, 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 the design and delivery of these qualifications 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. It also includes time spent by staff assessing learners' achievements. It does not include time spent by staff in day-to-day marking of assignments where the learner is not present.

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.

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 NQF Edexcel Level 5 BTEC Higher Nationals in Animal Management with the new units of the QCF Edexcel BTEC Higher Nationals in Animal Management.

Mode of delivery

Edexcel does not define the mode of study for Edexcel 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.

Full guidance on our policies on 'distance assessment' and 'electronic assessment' 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 Edexcel 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

Edexcel 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 Edexcel.

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 Edexcel 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.

Veterinary nursing progression

Learners preparing for progression into the field of veterinary nursing will be better equipped for entry into this vocational field through the selection of specialist units such as: *Unit 7: Biological Principles*, *Unit 10: Anatomy and Physiology*, *Unit 15: Principles of Animal Health*, *Unit 18: Animal Nursing*, *Unit 27: Plan and Manage the Health and Welfare of Animals* and *Unit 29: Plan, Monitor and Evaluate the Nutrition of Animals*.

Meeting local needs

Centres should note that the qualifications set out in these specifications have been developed in consultation with centres, employers and the Sector Skills Council (SSC) for the environmental and land-based sector.

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 identified by organisations and local funding agencies.

Centres may not always be able to meet local needs using the units in this specification. In this situation, centres can seek approval from Edexcel to use units from other Edexcel BTEC Higher National qualifications on the QCF. Centres will need to justify the need for importing units from other specifications and Edexcel will ensure that the vocational focus of the qualification remains the same.

Locally-devised specialist units

There may be exceptional circumstances where even the flexibility of importing units from other specifications does not meet a particular local need. In this case, centres can seek permission from Edexcel to develop a unit(s) with us to meet this need. Permission will be granted only in a limited number of cases.

Edexcel will ensure that the integrity of the qualification is not compromised and that there is a minimum of overlap and duplication of content of existing units. Centres will need strong evidence of the local need and the reasons why the existing standard units are inappropriate. Edexcel will validate these units.

Limitations on variations from standard specifications

The flexibility to import standard units from other QCF Edexcel BTEC Higher National specifications and/or to develop unique locally-devised specialist units is **limited to a maximum of 30 credits in an Edexcel BTEC HNC qualification and a maximum of 60 credits only in any Edexcel BTEC HND qualification**. 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.

Access and recruitment

Edexcel'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 Edexcel 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 should also show regard for Edexcel's policy (see our website) on learners with particular requirements.

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 animal management
- a GCE Advanced level profile which 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 awarded by 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

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

Access arrangements and special considerations

Edexcel's policy on access arrangements and special considerations for BTEC and Edexcel NVQ qualifications aims to enhance access to the qualifications for learners with disabilities and other difficulties (as defined by the Disability Discrimination Act 1995 and the amendments to the Act) without compromising the assessment of skills, knowledge, understanding or competence.

Further details are given on our website (www.edexcel.com).

Useful publications

Further copies of this document and related publications can be obtained from:

Edexcel Publications
Adamsway
Mansfield
Nottinghamshire NG18 4FN

Telephone: 01623 467 467
Fax: 01623 450 481
Email: publication.orders@edexcel.com

Related publications include:

- the current Edexcel publications catalogue and update catalogue
- Edexcel publications concerning the quality assurance system and the internal and external verification of vocationally-related programmes may be found on the Edexcel website and in the Edexcel publications catalogue.

NB: Most of our publications are priced. There is also a charge for postage and packing. Please check the cost when you order.

How to obtain National Occupational Standards

The National Occupational Standards for Animal Management and Welfare can be obtained from:

Lantra Sector Skills Council
Lantra House
Stoneleigh Park
Coventry
Warwickshire CV8 2LG

Telephone: 02476 696996
Email: standardsandquals@lantra.co.uk
Website: www.lantra.co.uk

Professional development and training

Edexcel supports UK and international customers with training related to BTEC qualifications. This support is available through a choice of training options offered in our published training directory or through customised training at your centre.

The support we offer focuses on a range of issues including:

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

The national programme of training we offer can be viewed on our website (www.edexcel.com/training). You can request customised training through the website or by contacting one of our advisers in the Training from Edexcel team via Customer Services to discuss your training needs.

Our customer service numbers are:

BTEC and NVQ	0844 576 0026
GCSE	0844 576 0027
GCE	0844 576 0025
The Diploma	0844 576 0028
DiDA and other qualifications	0844 576 0031

Calls may be recorded for training purposes.

The training we provide:

- is active – ideas are developed and applied
- is designed to be supportive and thought provoking
- builds on best practice.

Our training is underpinned by the former LLUK standards for those preparing to teach and for those seeking evidence for their continuing professional development.

Further information

For further information please call Customer Services on 0844 576 0026 (calls may be recorded for training purposes) or visit our website at www.edexcel.com.

Annexe A

Qualification Requirement

BTEC Higher Nationals in Animal Management

This Qualification Requirement will be read in conjunction with overarching guidance from Edexcel.

Rationale

The BTEC Higher Nationals in Animal Management have been designed to focus on:

- the education and training for a range of careers in animal management and allied land-based industries
- opportunities for those employed within these industries to achieve a nationally recognised higher level vocationally specific qualification
- opportunities for full-time learners to gain a nationally recognised vocationally specific higher level qualification to enter employment within these industries at supervisory or management level or to progress to higher education vocational qualifications such as a full-time degree in animal management or a related subject area
- expansion of the knowledge, understanding and skills of learners from an animal management or allied industry supervisor's or manager's viewpoint
- opportunities for learners to concentrate on the development of higher-level skills in a land-based context, and how their role and that of their business fits within the overall structure of the land-based industries, the national and international economy and the global overview
- opportunities for learners to develop a range of skills, techniques and attributes essential for successful performance in working life.

Aims of the qualification

This qualification meets the needs of the above rationale by:

- equipping individuals with knowledge, understanding and skills for successful employment in the animal management and allied industries
- enabling progression to an undergraduate degree or further professional qualifications in related areas
- providing opportunities for specialist study relevant to individual vocations and contexts
- developing the individual's ability in the animal management and allied industries through effective use and combination of the knowledge and skills gained in different parts of the programme
- developing a range of skills and techniques, personal qualities and attributes essential for successful performance in working life and thereby enabling learners to make an immediate contribution to employment
- providing flexibility, knowledge, skills and motivation as a basis for future studies and career development in the animal management and allied industries.

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:

- understand and apply business management, eg record-keeping, and planning techniques; human resource management, roles and responsibilities; financial management and analysis of performance; resource management; health and safety management; external factors; marketing; organisational impact on the environment; waste management techniques, legislation and benefits; environmental management techniques, organisations, policies and legislation
- use of project management; implement a project plan including evaluation and review; importance of communications and presentation in project management; importance of identifying various sources and types of information; use of sector-specific software packages for the management, collection, analysis and use of information; ICT skills used to obtain information from electronic sources and synthesise information
- understand basic evolution; classification methods; cell biology; anatomy and physiology of mammals, birds and fish; structure and physiology of plants; homeostasis; reproductive strategies; nutrition; growth and development; homeostatic mechanisms; disease diagnosis and treatment
- understand and apply handling techniques; housing requirements; feeding systems and strategies; animal welfare requirements and legislation; transportation systems; stocking densities; recording systems
- use of basic statistical techniques to support a range of experimental and production situations: reinforcement of numeracy requirements to ensure accuracy and precision in production and survey management

Optional curriculum

The optional curriculum will give learners the opportunity to explore selected specialised areas of study. It will display the following features:

- undertake real work experience within a business or organisation; practical health and safety; resource management; assist in aspects of supervisory and management practices overseeing various aspects of the working environment, eg financial management, production systems, customer care, environmental management.
- develop a knowledge of the history of land use in the UK; planning authorities and regulations; relevant legislation; issues that have changed land use in the UK; current issues facing land use in the UK; social history; sustainable development.
- develop and apply knowledge of the principles of sustainability; the development of international conventions regarding sustainability; governmental and industrial responses to international conventions; individual responses to the principles of sustainable development.
- extend and apply knowledge gained in the essential core curriculum by developing the learner's knowledge of animal nutrition; genetics; breeding; anatomy and physiology; and adaptation to cover mammals, birds, reptiles, amphibians and fish, in particular species, breeds and varieties kept as pets in the UK; knowledge of animal behaviour; methods of interpretation; functional behaviour; the implications of behavioural types; the place of animals in human society; the interactions between humans and animals; symptoms of ill health in animals; management costs; health and safety; relevant legislation.

- extend and apply knowledge gained in the core curriculum by developing the learner's knowledge of exotic animals, production animals, wildlife, aquatics and animals in collections; the range and adaptations of animals, their biological and physical requirements and management; animal health and welfare issues, requirements and support; sources of animals; types of establishment; health and safety; relevant legislation.
- develop and apply knowledge of the structure of genetic material; heredity mechanisms; techniques used to manipulate genetic material; the environmental impacts of biotechnology.
- develop and apply knowledge of the global and national animal industry and trade; the status of the industry in the UK and overseas; sources of animals; methods of breeding, capturing, transporting and marketing animals; relevant UK and international legislation; the ethics of keeping animals in captivity, as pets, as farm animals or for experimentation; animal welfare organisations.
- extend and apply knowledge gained in the core curriculum by developing the learner's knowledge of animal health and animal nursing; deeper understanding of animal anatomy and physiology; the aetiology of common disease organisms; environmental factors affecting health; diagnosis, nursing, handling and treatment techniques; animal welfare issues; equipment and facilities; economics; health and safety; relevant legislation.
- develop and apply knowledge of human teaching and learning methods; factors affecting effective learning; communication skills; teaching and learning qualifications.

Professional body recognition

Learners possessing an HNC/D in biological science and who have had experience of responsible work in biological science or its application for at least five years subsequent or seven years prior to the award are eligible to apply for membership of the Institute of Biology.

Links to National Standards

There is the opportunity for the Edexcel BTEC HNC and HND Diplomas in Animal Management to provide much of the underpinning knowledge, understanding and skills necessary to meet the requirements of National Occupational Standards in Animal Care and Welfare.

Entry prerequisites

There are no particular entry requirements for these qualifications. Learners who enter with at least one of the following are likely to benefit more readily from these Higher National programmes:

- a BTEC National in Animal Management or related subject
- at least one GCE A level pass in a relevant subject with supporting passes at GCSE would be advantageous for entry as would appropriate, relevant work experience.

Higher level skills and abilities

Learners will be expected to be able to do the following during the programme of study:

- analyse, synthesise and summarise information critically
- read and use appropriate literature with a full and critical understanding
- think independently, solve problems and devise innovative solutions
- take responsibility for their own learning and recognise their own learning style

- apply subject knowledge and understanding to address familiar and unfamiliar problems
- design, plan, conduct and report 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

Annexe B

National Occupational Standards

Mapping against the National Occupational Standards in Animal Care and Welfare

The grid below maps the knowledge covered in the National Occupational Standards in Animal Care and Welfare against the underpinning knowledge of the Edexcel BTEC Higher Nationals in Animal Management (QCF).

HNC/D titles	Unit 1: Business Environment	Unit 2: Animal Husbandry Management	Unit 3: Animal Health and Welfare	Unit 4: Animal Nutrition	Unit 5: Research Project	Unit 6: Work-based Experience	Unit 7: Biological Principles	Unit 8: Horse Husbandry	Unit 9: Principles of Ecology	Unit 10: Anatomy and Physiology	Unit 11: Animal Behaviour	Unit 12: Genetics and their Application	Unit 13: Animal Law and Ethics	Unit 14: Animal Industry and Trade	Unit 15: Principles of Animal Health	Unit 16: Management of Animal Collections	Unit 17: Fish, Game and Wildlife Management	Unit 18: Animal Nursing	Unit 19: Production Animal Management	Unit 20: Exotics and the Pet Trade
NVQ unit titles																				
Animal Care and Welfare National Occupational Standards																				
AC10 implement and monitor plans for the health and welfare of animals		#	#	#															#	
AC11 Investigate reported nuisance, abuse or harm of animals		#	#																	
AC13 Plan, monitor and evaluate the establishment and management of animal populations		#		#							#					#				

HNC/D titles	Unit 1: Business Environment	Unit 2: Animal Husbandry Management	Unit 3: Animal Health and Welfare	Unit 4: Animal Nutrition	Unit 5: Research Project	Unit 6: Work-based Experience	Unit 7: Biological Principles	Unit 8: Horse Husbandry	Unit 9: Principles of Ecology	Unit 10: Anatomy and Physiology	Unit 11: Animal Behaviour	Unit 12: Genetics and their Application	Unit 13: Animal Law and Ethics	Unit 14: Animal Industry and Trade	Unit 15: Principles of Animal Health	Unit 16: Management of Animal Collections	Unit 17: Fish, Game and Wildlife Management	Unit 18: Animal Nursing	Unit 19: Production Animal Management	Unit 20: Exotics and the Pet Trade
NVQ unit titles											#									
AC14 Provide information to individuals and groups on how to promote the health of animals and interpret their behaviour																				
AC16 Assessment and planning of dog grooming		#																		#
CU34 Promote and maintain the health and well-being of animals																				
CU39 Plan, monitor and evaluate the accommodation of animals		#																	#	
CU41 Handle and care for animals to enable them to work effectively												#								
CU42 Load and unload animals for transport																			#	
CU43 Maintain the health and well-being of animals during transportation		#																	#	#

HNC/D titles	Unit 1: Business Environment	Unit 2: Animal Husbandry Management	Unit 3: Animal Health and Welfare	Unit 4: Animal Nutrition	Unit 5: Research Project	Unit 6: Work-based Experience	Unit 7: Biological Principles	Unit 8: Horse Husbandry	Unit 9: Principles of Ecology	Unit 10: Anatomy and Physiology	Unit 11: Animal Behaviour	Unit 12: Genetics and their Application	Unit 13: Animal Law and Ethics	Unit 14: Animal Industry and Trade	Unit 15: Principles of Animal Health	Unit 16: Management of Animal Collections	Unit 17: Fish, Game and Wildlife Management	Unit 18: Animal Nursing	Unit 19: Production Animal Management	Unit 20: Exotics and the Pet Trade	
NVQ unit titles		#																	#		
CU44 Plan, monitor and evaluate the transportation of animals		#						#													
CU45 Control and restrain animals		#																			
CU51 Determine, monitor and evaluate policies for the management of animals		#		#							#										

HNC/D titles	Unit 21: Aquatics and Fishkeeping	Unit 22: Human Animal Interactions	Unit 23: Animal Adaptations	Unit 24: Natural History of Exotic Mammals	Unit 25: Manage Animals in Education and Entertainment	Unit 26: Manage the Training of Animals	Unit 27: Plan and Manage the Health and Welfare of Animals	Unit 28: Plan, Monitor and Evaluate the Nutrition of Animals	Unit 29: Plan and Manage Breeding Programmes for Animals	Unit 30: Health and Safety in the Land-based Workplace	Unit 31: Environmental Management	Unit 32: Sustainable Development	Unit 33: Project Management for Land-based Industries	Unit 34: Small Business Enterprise	Unit 35: Land Use Issues and Regulation	Unit 36: Teaching a Specialist Subject	Unit 37: Environmental Education and Interpretation	Unit 38: Employability Skills	Unit 39: Research Methods for Land-based Industries	Unit 40: Visitor Attraction Management
NVQ unit titles																				
Animal Care and Welfare National Occupational Standards																				
AC10 Implement and monitor plans for the health and welfare of animals	#				#		#		#											
AC13 Plan, monitor and evaluate the establishment and management of animal populations	#								#											
AC14 Provide information to individuals and groups on how to promote the health of animals and interpret their behaviour	#					#														
AC19 Train animals and people to work together as one																				

HNC/D titles					
NVQ unit titles					
CU35	Unit 21: Aquatics and Fishkeeping				
CU40 Train animals to achieve specific objectives	Unit 22: Human Animal Interactions				
CU41 Handle and care for animals to enable them to work effectively	Unit 23: Animal Adaptations				
CU43 Maintain the health and well-being of animals during transportation	Unit 24: Natural History of Exotic Mammals				
CU44 Plan, monitor and evaluate the transportation of animals	Unit 25: Manage Animals in Education and Entertainment	#			
	Unit 26: Manage the Training of Animals	#	#		
	Unit 27: Plan and Manage the Health and Welfare of Animals	#	#		
	Unit 28: Plan, Monitor and Evaluate the Nutrition of Animals			#	#
	Unit 29: Plan and Manage Breeding Programmes for Animals				
	Unit 30: Health and Safety in the Land-based Workplace				
	Unit 31: Environmental Management				
	Unit 32: Sustainable Development				
	Unit 33: Project Management for Land-based Industries				
	Unit 34: Small Business Enterprise				
	Unit 35: Land Use Issues and Regulation				
	Unit 36: Teaching a Specialist Subject				
	Unit 37: Environmental Education and Interpretation				
	Unit 38: Employability Skills				
	Unit 39: Research Methods for Land-based Industries				
	Unit 40: Visitor Attraction Management				

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 descriptors	Exemplar indicative characteristics
In order to achieve a merit the learner must:	Centres can identify and use other relevant characteristics. This is NOT a tick list. The learner's evidence shows, for example:
<ul style="list-style-type: none"> • identify and apply strategies to find appropriate solutions 	<ul style="list-style-type: none"> • effective judgements have been made • complex problems with more than one variable have been explored • an effective approach to study and research has been applied
<ul style="list-style-type: none"> • select/design and apply appropriate methods/techniques 	<ul style="list-style-type: none"> • relevant theories and techniques have been applied • a range of methods and techniques have been applied • a range of sources of information has been used • the selection of methods and techniques/sources has been justified • the design of methods/techniques has been justified • complex information/data has been synthesised and processed • appropriate learning methods/techniques have been applied
<ul style="list-style-type: none"> • present and communicate appropriate findings 	<ul style="list-style-type: none"> • the appropriate structure and approach has been used • 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 • communication has taken place in familiar and unfamiliar contexts • the communication is appropriate for familiar and unfamiliar audiences and appropriate media have been used.

Distinction grade

Distinction descriptors	Exemplar indicative characteristics
In order to achieve a distinction the learner must:	Centres can identify and use other relevant characteristics. This is NOT a tick list. The learner's evidence shows, for example:
<ul style="list-style-type: none"> • use critical reflection to evaluate own work and justify valid conclusions 	<ul style="list-style-type: none"> • conclusions have been arrived at through synthesis of ideas and have been justified • the validity of results has been evaluated using defined criteria • self-criticism of approach has taken place • realistic improvements have been proposed against defined characteristics for success
<ul style="list-style-type: none"> • take responsibility for managing and organising activities 	<ul style="list-style-type: none"> • autonomy/independence has been demonstrated • 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
<ul style="list-style-type: none"> • demonstrate convergent/lateral/creative thinking 	<ul style="list-style-type: none"> • ideas have been generated and decisions taken • self-evaluation has taken place • 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

New QCF versions of the Edexcel BTEC Higher National units in Animal Management (specification start date 01/09/2011) mapped against the NQF BTEC Higher National units in Animal Management (specification end date 31/08/2011).

Unit number	QCF unit title	Maps to NQF unit number	Level of similarity between units
1	Business Environment	1	P
2	Animal Husbandry Management	4	F
3	Animal Health and Welfare	5	F
4	Animal Nutrition	7	F
5	Research Project	2	F
6	Work-based Experience	9	F
7	Biological Principles	3	F
8	Horse Husbandry	8	F
9	Principles of Ecology	13	F
10	Anatomy and Physiology	15	F
11	Animal Behaviour	16	F
12	Genetics and their Application	17	F
13	Animal Law and Ethics	18	F
14	Animal Industry and Trade	19	F
15	Principles of Animal Health	21	F
16	Management of Animal Collections	22	F
17	Fish, Game and Wildlife Management	23	F
18	Animal Nursing	24	F
19	Production Animal Management	25	F
20	Exotics and the Pet Trade	26	F
21	Aquatics and Fishkeeping	27	F
22	Human Animal Interactions	38	F
23	Animal Adaptations	30	F
24	Natural History of Exotic Mammals	31	F
25	Manage Animals in Education and Entertainment	—	N

Unit number	QCF unit title	Maps to NQF unit number	Level of similarity between units
26	Manage the Training of Animals	—	N
27	Plan and Manage the Health and Welfare of Animals	—	N
28	Plan, Monitor and Evaluate the Nutrition of Animals	—	N
29	Plan and Manage Breeding Programmes for Animals	—	N
30	Health and Safety in the Land-based Workplace	—	N
31	Environmental Management	6	F
32	Sustainable Development	10	F
33	Project Management for Land-based Industries	11	F
34	Small Business Enterprise	12	F
35	Land Use Issues and Regulation	14	F
36	Teaching a Specialist Subject	20	F
37	Environmental Education and Interpretation	29	F
38	Employability Skills	—	N
39	Research Methods for Land-based Industries	—	N
40	Visitor Attraction Management	—	N

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

New QCF versions of the Edexcel BTEC Higher National units in Animal Management (specification start date 01/09/2011) mapped against the NQF BTEC Higher National units in Animal Management (specification end date 31/08/2011).

New QCF units		NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
1	Business Environment	1	Principles of Land-based Business	<p>“Evaluate the role of records and accounts in meeting legal and management information requirements” and “Operate manual and computerised recording and accounting systems” removed from unit.</p> <p>Focus of unit is now on Business organisations and the environment they work in.</p> <p><i>Understand the organisational purposes of businesses.</i></p> <p><i>Understand the nature of the national environment in which businesses operate.</i></p> <p><i>Understand the behaviour of organisations in their market environment.</i></p> <p><i>Be able to assess the significance of global factors that shape national business activities.</i></p>
2	Animal Husbandry Management	4	Animal Husbandry	N/A
3	Animal Health and Welfare	5	Animal Health and Welfare	N/A
4	Animal Nutrition	7	Animal Nutrition	N/A
5	Research Project	2	Investigative Project	<p><i>Understand how to formulate a research specification.</i></p> <p><i>Be able to implement the research project within agreed procedures and to specification.</i></p>

New QCF units		NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
6	Work-based Experience	9	Land-based Industry Experience	N/A
7	Biological Principles	3	Biological Principles	"Demonstrate the knowledge of fundamental biological principles and the ability to apply them through basic laboratory investigations" has been split into two topics. The unit now consists of five topics. <i>Be able to investigate fundamental biological principles in plants and/or animals.</i> <i>Understand basic biochemical principles in plant and/or animals.</i>
8	Horse Husbandry	8	Horse Husbandry	N/A
9	Principles of Ecology	13	Principles of Ecology	N/A
10	Anatomy and Physiology	15	Anatomy and Physiology	N/A
11	Animal Behaviour	16	Animal Behaviour	N/A
12	Genetics and their Application	17	Biotechnology and Genetics	N/A
13	Animal Law and Ethics	18	Animal Law and Ethics	N/A
14	Animal Industry and Trade	19	Animal Industry and Trade	N/A
15	Principles of Animal Health	21	Principles of Animal Health	N/A
16	Management of Animal Collections	22	Management of Animal Collections	N/A

New QCF units		NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
17	Fish, Game and Wildlife Management	23	Wildlife Management	Unit focus now on Fish, Game and Wildlife Management not jus wildlife management has resulted in four new learning outcomes. <i>Understand wildlife resources.</i> <i>Understand the ecology of exploited species.</i> <i>Be able to plan the management of a fish, game or wildlife resource.</i> <i>Understand harvesting strategies for the long-term economic exploitation of a species by modelling its population dynamics.</i>
18	Animal Nursing	24	Animal Nursing	N/A
19	Production Animal Management	25	Production Animal Management	N/A
20	Exotics and the Pet Trade	26	Exotics and the Pet Trade	N/A
21	Aquatics and Fishkeeping	27	Aquatics and Fishkeeping	N/A
22	Human Animal Interactions	28	Human Animal Interactions	"Evaluate the changing roles of animals in modern human society" removed from unit. <i>Understand the significance of the human-animal bond.</i>
23	Animal Adaptations	30	Animal Adaptations	N/A
24	Natural History of Exotic Mammals	31	Natural History of Exotic Mammals	N/A
25	Manage Animals in Education and Entertainment	—		N/A
26	Manage the Training of Animals	—		N/A

New QCF units		NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
27	Plan and Manage the Health and Welfare of Animals	—		N/A
28	Plan, Monitor and Evaluate the Nutrition of Animals	—		N/A
29	Plan and Manage Breeding Programmes for Animals	—		N/A
30	Health and Safety in the Land-based Workplace	—		N/A
31	Environmental Management	6	Environmental Management	Additional topic added to unit to create five Learning outcomes. <i>Be able to devise environmental policy in a land-based sector.</i>
32	Sustainable Development	10	Sustainable Development	N/A
33	Project Management for Land-based Industries	11	Project Management for Land-based Industries	N/A
34	Small Business Enterprise	12	Small Business Enterprise	N/A
35	Land Use Issues and Regulation	14	Land Use Issues and Regulation	N/A
36	Teaching a Specialist Subject	20	Teaching and Instruction	Unit takes a more in-depth look at teaching methods and has expanded to six Learning Outcomes for students to focus on. <i>Understand the aims and philosophy of education and training in own specialist area.</i> <i>Understand the aims and structure of a range of courses and qualifications available in own specialist area.</i> <i>Understand principles of inclusive learning and teaching and key curriculum issues in own specialist area.</i>

New QCF units		NQF units		Mapping/comments (new topics in italics)
Number	Name	Number	Name	
				<p><i>Understand how to use a range of specialist resources for inclusive learning and teaching.</i></p> <p><i>Understand and demonstrate how to work with other teachers and trainers within own specialist area.</i></p> <p><i>Understand how to evaluate, improve and update own specialist knowledge and skills.</i></p>
37	Environmental Education and Interpretation	29	Environmental Education and Interpretation	N/A
38	Employability Skills	—		N/A
39	Research Methods for Land-based Industries	—		N/A
40	Visitor Attraction Management	—		N/A

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 the Edexcel 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 'Points available per credit at specified unit grades' table below).

Points available per credit at specified unit grades

Points per credit		
Pass	Merit	Distinction
0	1	2

Qualification grades

Edexcel BTEC Level 4 HNC

Points range	Grade	
0-74	Pass	P
75-149	Merit	M
150	Distinction	D

Edexcel BTEC Level 5 HND

Points range	Grade	
0-74	Pass	P
75-149	Merit	M
150	Distinction	D

Examples of possible learner profiles of the best 75 credits at the level of the qualification or above. These tables fit both HNC and HND qualifications.

Unit grade	Credits achieved at each unit grade	Points per credit	Points scored
Pass	30	0	0
Merit	30	1	30
Distinction	15	2	30
Total			60
Qualification grade			Pass

Unit grade	Credits achieved at each unit grade	Points per credit	Points scored
Pass	15	0	0
Merit	45	1	45
Distinction	15	2	30
Total			75
Qualification grade			Merit

Unit grade	Credits achieved at each unit grade	Points per credit	Points scored
Pass	30	0	0
Merit	15	1	15
Distinction	30	2	60
Total			75
Qualification grade			Merit

Unit grade	Credits achieved at each unit grade	Points per credit	Points scored
Pass	0	0	0
Merit	15	1	15
Distinction	60	2	120
Total			135
Qualification grade			Merit

Unit grade	Credits achieved at each unit grade	Points per credit	Points scored
Pass	0	0	0
Merit	0	1	0
Distinction	75	2	150
Total			150
Qualification grade			Distinction

ANIMAL MANAGEMENT Specification

LEVEL

4

HNC

5

HND

Our most advanced specification to date

This new BTEC Higher Nationals specification has been completely revised and updated to bring it into line with the requirements of the Qualifications and Credit Framework (QCF), which comes into force from September 2010. All the units and qualifications covered in the specification have been reviewed by industry representatives and approved by the relevant Sector Skills Council. This means they are recognised as fit for purpose as high level vocational and work-related qualifications.

Each unit in the new specification is allocated a level and a credit value. Each unit in the specification has clearly stated learning outcomes and assessment criteria, so it is clear from the outset what learners must be able to do to achieve the unit.

BTEC Qualifications covered by this specification:

- Edexcel BTEC Level 4 HNC Diploma in Animal Management
- Edexcel BTEC Level 5 HND Diploma in Animal Management

A copy of this specification can be found online at:
www.btec.co.uk

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References

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