Pearson
BTEC Level 3 National Extended Certificate in Countryside Management

Specification

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First certification from 2020
Issue 2
Edexcel, BTEC and LCCI qualifications

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About Pearson

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This specification is Issue 2. Key changes are sidelined. We will inform centres of any changes to this issue. The latest issue can be found on our website.

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Welcome

With a track record built over 30 years of learner success, BTEC Nationals are widely recognised by industry and higher education as the signature vocational qualification at Level 3. They provide progression to the workplace either directly or via study at a higher level. Proof comes from YouGov research, which shows that 62 per cent of large companies have recruited employees with BTEC qualifications. What’s more, well over 100,000 BTEC students apply to UK universities every year and their BTEC Nationals are accepted by over 150 UK universities and higher education institutes for relevant degree programmes either on their own or in combination with A Levels.

Why are BTECs so successful?

BTECs embody a fundamentally learner-centred approach to the curriculum, with a flexible, unit-based structure and knowledge applied in project-based assessments. They focus on the holistic development of the practical, interpersonal and thinking skills required to be able to succeed in employment and higher education.

When creating the BTEC Nationals in this suite, we worked with many employers, higher education providers, colleges and schools to ensure that their needs are met. Employers are looking for recruits with a thorough grounding in the latest industry requirements and work-ready skills such as teamwork. Higher education needs students who have experience of research, extended writing and meeting deadlines.

We have addressed these requirements with:

• a range of BTEC sizes, each with a clear purpose, so there is something to suit each learner’s choice of study programme and progression plans
• refreshed content that is closely aligned with employers’ and higher education needs for a skilled future workforce
• assessments and projects chosen to help learners progress to the next stage. This means some are set by you to meet local needs, while others are set and marked by Pearson so that there is a core of skills and understanding that is common to all learners.
  For example, a written test can be used to check that learners are confident in using technical knowledge to carry out a certain job.

We provide a wealth of support, both resources and people, to ensure that learners and their teachers have the best possible experience during their course. See Section 10 for details of the support we offer.

A word to learners

Today’s BTEC Nationals are demanding, as you would expect of the most respected applied learning qualification in the UK. You will have to choose and complete a range of units, be organised, take some assessments that we will set and mark and keep a portfolio of your assignments. But you can feel proud to achieve a BTEC because, whatever your plans in life – whether you decide to study further, go on to work or an Apprenticeship, or set up your own business – your BTEC National will be your passport to success in the next stage of your life.

Good luck, and we hope you enjoy your course.
Collaborative development

Learners completing their BTEC Nationals in Countryside Management will be aiming to go on to employment, often via the stepping stone of higher education. It was, therefore, essential that we developed these qualifications in close collaboration with experts from professional bodies, businesses and universities, and with the providers who will be delivering the qualifications. To ensure that the content meets providers’ needs and provides high-quality preparation for progression, we engaged experts. We are very grateful to all the university and further education lecturers, teachers, employers, professional body representatives and other individuals who have generously shared their time and expertise to help us develop these new qualifications.

In addition, universities, professional bodies and businesses have provided letters of support confirming that these qualifications meet their entry requirements. These letters can be viewed on our website.

Summary of Pearson BTEC Level 3 National Extended Certificate in Countryside Management specification Issue 2 changes

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<td>First certification date updated to 2020.</td>
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<tr>
<td>The first external assessment availability date has been updated: Unit 1: Professional Working Responsibilities – January 2020</td>
<td>Pages 13 and 19</td>
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If you need further information on these changes or what they mean, contact us via our website at: qualifications.pearson.com/en/support/contact-us.html.
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Introduction to BTEC National qualifications for the countryside management sector

This specification contains the information you need to deliver the Pearson BTEC Level 3 National Extended Certificate in Countryside Management. The specification signposts you to additional handbooks and policies. It includes all the units for this qualification.

This qualification is part of the suite of countryside management qualifications offered by Pearson. In the suite there are qualifications that focus on different progression routes, allowing learners to choose the one best suited to their aspirations.

All qualifications in the suite share some common units and assessments, allowing learners some flexibility in moving between qualifications where they wish to select a more specific progression route. The qualification titles are given below.

Within this suite are BTEC National qualifications for post-16 learners who want to specialise in a specific industry, occupation or occupational group. The qualifications give learners specialist knowledge and technical skills, enabling entry to an Apprenticeship or other employment, or progression to related higher education courses. Learners taking these qualifications must have a significant level of employer involvement in their programmes.

In the countryside management sector these are the:

Pearson BTEC Level 3 National Extended Certificate in Countryside Management (603/0870/9)
Pearson BTEC Level 3 National Foundation Diploma in Countryside Management (603/0869/2)
Pearson BTEC Level 3 National Diploma in Countryside Management (603/1213/0)
Pearson BTEC Level 3 National Extended Diploma in Countryside Management (603/2677/3).

The Diploma (540 GLH) and Extended Diploma (1080 GLH) are approved as Tech Level qualifications for 2020 performance measures by the DFE. The Extended Certificate (360 GLH) and Foundation Diploma (540 GLH) are not currently recognised for performance measures. Please check our website for details of subsequent availability for future DFE performance measures.

This specification signposts all the other essential documents and support that you need as a centre in order to deliver, assess and administer the qualification, including the staff development required. A summary of all essential documents is given in Section 7. Information on how we can support you with this qualification is given in Section 10.

The information in this specification is correct at the time of publication.
Total Qualification Time

For all regulated qualifications, Pearson specifies a total number of hours that it is estimated learners will require to complete and show achievement for the qualification: this is the Total Qualification Time (TQT). Within TQT, Pearson identifies the number of Guided Learning Hours (GLH) that we estimate a centre delivering the qualification might provide. Guided learning means activities, such as lessons, tutorials, online instruction, supervised study and giving feedback on performance, that directly involve teachers and assessors in teaching, supervising and invigilating learners. Guided learning includes the time required for learners to complete external assessment under examination or supervised conditions.

In addition to guided learning, other required learning directed by teachers or assessors will include private study, preparation for assessment and undertaking assessment when not under supervision, such as preparatory reading, revision and independent research.

BTEC Nationals have been designed around the number of hours of guided learning expected. Each unit in the qualification has a GLH value of 60, 90 or 120. There is then a total GLH value for the qualification.

Each qualification has a TQT value. This may vary within sectors and across the suite, depending on the nature of the units in each qualification and the expected time for other required learning. The following table show all the qualifications in this sector and their GLH and TQT values.
## Qualifications, sizes and purposes at a glance

<table>
<thead>
<tr>
<th>Title</th>
<th>Size and structure</th>
<th>Summary purpose</th>
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</table>
| **Pearson BTEC Level 3 National Extended Certificate in Countryside Management**<sup>*</sup> | 360 GLH (535 TQT)  
Equivalent in size to one A Level.  
Five units of which three are mandatory and one is external.  
Mandatory content (67%).  
External assessment (33%). | This qualification offers an engaging programme to support learners who want to pursue a career in the countryside management sector. It is intended as a Tech Level qualification. This size of qualification allows learners to study related and complementary qualifications alongside it, without duplication of content. The qualification can prepare learners for a range of apprenticeships in the countryside management sector, or direct entry to roles such as trainee reserve warden, or trainee estates operative. When taken alongside further Level 3 qualifications, it supports progression to a range of higher education courses in countryside management or environmental conservation. |
| **Pearson BTEC Level 3 National Foundation Diploma in Countryside Management**<sup>*</sup> | 540 GLH (840 TQT)  
Equivalent in size to 1.5 A Levels.  
Seven units of which five are mandatory and two are external.  
Mandatory content (78%).  
External assessment (44%). | This qualification is designed as a one-year, full-time course, or as part of a two-year, full-time study programme for learners who want to take it alongside another area of complementary study. It is intended as a Tech Level qualification and supports progression to careers in the countryside management sector. This qualification is primarily for learners who are intending to gain employment directly, in roles such as fieldwork assistant or assistant warden, but can also be used to progress to an apprenticeship or a higher education course in countryside management or environmental conservation. |
| **Pearson BTEC Level 3 National Diploma in Countryside Management** | 720 GLH (1155 TQT)  
Equivalent in size to two A Levels.  
Ten units of which seven are mandatory and two are external.  
Mandatory content (75%).  
External assessment (33%). | This qualification is designed to be the substantive part of a 16–19 study programme for learners who want a strong core of sector study. It is intended as a Tech Level qualification and supports progression to careers in the countryside management sector. The qualification is an introduction to the sector and is primarily for learners who are intending to gain employment directly in roles such as assistant gamekeeper, assistant reserve warden, assistant estate supervisor, or assistant ranger. The qualification focuses on countryside recreational activities, and the management of the countryside environment. |
Title | Size and structure | Summary purpose
--- | --- | ---
Pearson BTEC Level 3 National Extended Diploma in Countryside Management | 1080 GLH (1760 TQT) Equivalent in size to three A Levels. Fifteen units of which ten are mandatory and three are external. Mandatory content (72%). External assessment (33%). | This qualification is a two-year, full-time course for learners aged 16–19 and is intended as a Tech Level qualification. It is designed for learners who want to focus their studies on the countryside management sector, with a firm intention of progressing to employment in one of the countryside management or specialist roles available. The qualification also supports progression for those learners who intend to further their studies in higher education.

Learners must not register on the BTEC Level 3 Nationals in Agriculture, Horticulture or Forestry and Arboriculture, at the same time as the BTEC Level 3 Nationals in Countryside Management, owing to the overlap of content and assessment.

* These qualifications are not currently recognised by DFE for performance measures.
Structures of the qualifications at a glance

This table shows all the units and the qualifications to which they contribute. The full structure for this Pearson BTEC Level 3 National in Countryside Management is shown in Section 2. You must refer to the full structure to select units and plan your programme.

Key

<table>
<thead>
<tr>
<th>Unit assessed externally</th>
<th>M</th>
<th>Mandatory units</th>
<th>O</th>
<th>Optional units</th>
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<table>
<thead>
<tr>
<th>Unit (number and title)</th>
<th>Unit size (GLH)</th>
<th>Extended Certificate* (360 GLH)</th>
<th>Foundation Diploma* (540 GLH)</th>
<th>Diploma (720 GLH)</th>
<th>Extended Diploma (1080 GLH)</th>
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<tbody>
<tr>
<td>1 Professional Working Responsibilities</td>
<td>120 M M M M</td>
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<tr>
<td>2 Plant and Soil Science</td>
<td>120 M M M M</td>
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<tr>
<td>3 Contemporary Issues in the Land-based Sectors</td>
<td>120</td>
<td>M</td>
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<tr>
<td>4 Work Experience in the Land-based Sectors</td>
<td>60 M M M M</td>
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<tr>
<td>5 Countryside Estate Skills Activities</td>
<td>60 M M M M</td>
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<tr>
<td>6 Managing Environmental Habitats</td>
<td>60</td>
<td>M</td>
<td>M</td>
<td>M</td>
<td>M</td>
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<tr>
<td>7 Woodland Management</td>
<td>60 O O O M</td>
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<tr>
<td>8 Identification, Planting and Care of Trees</td>
<td>60 O O O O</td>
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<tr>
<td>9 Developing a Land-based Enterprise</td>
<td>60 O O O O</td>
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<td>10 Land-based Machinery Operations</td>
<td>60 O O O O</td>
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<tr>
<td>11 Wildlife Ecology and Conservation Management</td>
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<td>12 Controlling Countryside Pests and Predators</td>
<td>60 O O O O</td>
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<tr>
<td>13 Gamekeeping</td>
<td>60 O O O O</td>
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<td>14 Countryside Recreation</td>
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<td>15 Managing a Shoot</td>
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<td>O</td>
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<tr>
<td>16 Water Quality Management</td>
<td>60</td>
<td>O</td>
<td>O</td>
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<tr>
<td>17 Management of Deer in the UK</td>
<td>60</td>
<td>O</td>
<td>O</td>
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<tr>
<td>18 Tree Felling and Chainsaw Safety</td>
<td>60</td>
<td>O</td>
<td>O</td>
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<tr>
<td>19 Coastal Habitats Management</td>
<td>60</td>
<td>O</td>
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<tr>
<td>20 Working Dogs</td>
<td>60</td>
<td>O</td>
<td>O</td>
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<tr>
<td>21 Controlling Firearm Safety in the Land-based Sectors</td>
<td>60</td>
<td>O</td>
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<thead>
<tr>
<th>Unit (number and title)</th>
<th>Unit size (GLH)</th>
<th>Extended Certificate (360 GLH)</th>
<th>Foundation Diploma (540 GLH)</th>
<th>Diploma (720 GLH)</th>
<th>Extended Diploma (1080 GLH)</th>
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<tbody>
<tr>
<td>22 Freshwater and Wetland Management</td>
<td>60</td>
<td></td>
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<tr>
<td>23 Applied Ecological Management</td>
<td>60</td>
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<td>O</td>
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<tr>
<td>24 Ecological Concepts</td>
<td>60</td>
<td></td>
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<td>O</td>
<td></td>
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<tr>
<td>25 Physical and Biological Environmental Processes</td>
<td>60</td>
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<td>O</td>
<td></td>
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<tr>
<td>26 Managing Countryside Visitor Activities</td>
<td>60</td>
<td></td>
<td></td>
<td>M</td>
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* These qualifications are not currently recognised by DFE for performance measures.
Qualification and unit content

Pearson has developed the content of the new BTEC Nationals in collaboration with employers and representatives from higher education and relevant professional bodies. In this way, we have ensured that content is up to date and that it includes the knowledge, understanding, skills and attributes required in the sector.

Each qualification in the suite has its own purpose. The mandatory content provides a balance of breadth and depth ensuring that all learners have a strong basis for developing technical skills required in the sector. Learners are then offered the opportunity to develop a range of technical skills and attributes expected by employers with some opportunity to select between optional units where a degree of choice for individual learners to study content relevant to their own progression choices is appropriate. It is expected that learners will apply their learning in relevant employment and sector contexts during delivery and have opportunities to engage meaningfully with employers.

The proportion of mandatory content ensures that all learners are following a coherent programme of study and acquiring the knowledge, understanding and skills that will be recognised and valued. Learners are expected to show achievement across mandatory units as detailed in Section 2.

BTEC Nationals have always required applied learning that brings together knowledge and understanding (the cognitive domain) with practical and technical skills (the psychomotor domain). This is achieved through learners performing vocational tasks that encourage the development of appropriate vocational behaviours (the affective domain) and transferable skills. Transferable skills are those such as communication, teamwork, planning and completing tasks to high standards, which are valued in both the workplace and in higher education.

Our approach provides rigour and balance, and promotes the ability to apply learning immediately in new contexts. Further details can be found in Section 2.

Centres should ensure that delivery of content is kept up to date. In particular, units may include reference to regulation, legislation, policies and regulatory/standards organisations. The units are designed to provide guidance on breadth and depth of coverage and may be adjusted to update content and to reflect variations within the UK.

Assessment

Assessment is specifically designed to fit the purpose and objective of the qualification. It includes a range of assessment types and styles suited to vocational qualifications in the sector. There are three main forms of assessment that you need to be aware of: external, internal and synoptic.

Externally-assessed units

Each external assessment for a BTEC National is linked to a specific unit. All of the units developed for external assessment are of 120 GLH to allow learners to demonstrate breadth and depth of achievement. Each assessment is taken under specified conditions, then marked by Pearson and a grade awarded. Learners are permitted to resit external assessments during their programme. You should refer to our website for current policy information on permitted retakes.

The styles of external assessment used for qualifications in the countryside management suite are:

• examinations – all learners take the same assessment at the same time, normally with a written outcome
• set tasks – learners take the assessment during a defined window and demonstrate understanding through completion of a vocational task.

Some external assessments include a period of preparation using set information. External assessments are available twice a year. For detailed information on the external assessments please see the table in Section 2. For further information on preparing for external assessment see Section 5.
Internally-assessed units

Most units in the sector are internally assessed and subject to external standards verification. This means that you set and assess the assignments that provide the final summative assessment of each unit, using the examples and support that Pearson provides. Before you assess you will need to become an approved centre, if you are not one already. You will need to prepare to assess using the guidance in Section 6.

In line with the requirements and guidance for internal assessment, you select the most appropriate assessment styles according to the learning set out in the unit. This ensures that learners are assessed using a variety of styles to help them develop a broad range of transferable skills. Learners could be given opportunities to:

- demonstrate practical and technical skills using appropriate tools or processes
- complete realistic tasks to meet specific briefs or particular purposes
- write up the findings of their own research
- use case studies to explore complex or unfamiliar situations
- carry out projects for which they have choice over the direction and outcomes.

You will make grading decisions based on the requirements and supporting guidance given in the units. Learners may not make repeated submissions of assignment evidence. For further information see Section 6.

Synoptic assessment

Synoptic assessment requires learners to demonstrate that they can identify and use effectively, in an integrated way, an appropriate selection of skills, techniques, concepts, theories and knowledge from across the whole sector as relevant to a key task. BTEC learning has always encouraged learners to apply their learning in realistic contexts using scenarios and realistic activities that will permit learners to draw on and apply their learning. For these qualifications we have formally identified units that contain a synoptic assessment task. Synoptic assessment must take place after the teaching and learning of other mandatory units in order for learners to be able to draw from the full range of content. The synoptic assessment gives learners an opportunity to independently select and apply learning from across their programmes in the completion of a vocational task. Synoptic tasks may be in internally- or externally-assessed units. The particular unit that contains the synoptic tasks for this qualification is shown in the structure in Section 2.

Language of assessment

Assessment of the internal and external units for these qualifications will be available in English. All learner work must be in English. A learner taking the qualifications may be assessed in British or Irish Sign Language where it is permitted for the purpose of reasonable adjustment. For information on reasonable adjustments see Section 7.
Grading for units and qualifications

Achievement in the qualification requires a demonstration of depth of study in each unit, assured acquisition of a range of practical skills required for employment or progression to higher education, and successful development of transferable skills. Learners achieving a qualification will have achieved across mandatory units, including external and synoptic assessment.

Units are assessed using a grading scale of Distinction (D), Merit (M), Pass (P), Near Pass (N) and Unclassified (U). The grade of Near Pass is used for externally-assessed units only. All mandatory and optional units contribute proportionately to the overall qualification grade, for example a unit of 120 GLH will contribute double that of a 60 GLH unit.

Qualifications in the suite are graded using a scale of P to D*, or PP to D*D*, or PPP to D*D*D*. Please see Section 9 for more details. The relationship between qualification grading scales and unit grades will be subject to regular review as part of Pearson’s standards monitoring processes on the basis of learner performance and in consultation with key users of the qualification.

UCAS Tariff points

The BTEC Nationals attract UCAS points. Please go to the UCAS website for full details of the points allocated.
1 Qualification purpose

Pearson BTEC Level 3 National Extended Certificate in Countryside Management

In this section, you will find information on the purpose of this qualification and how its design meets that purpose through the qualification objective and structure. We publish a full ‘Statement of Purpose’ for each qualification on our website. These statements are designed to guide you and potential learners to make the most appropriate choice about the size of qualification suitable at recruitment.

Who is this qualification for?

The Pearson BTEC Level 3 National Extended Certificate in Countryside Management is equivalent in size to one A Level. It is designed to meet the Tech Bacc measure when studied alongside Level 3 mathematics and the Extended Project Qualification (EPQ). This size of qualification allows learners to study related and complementary qualifications without duplication of content. It provides good preparation for learners considering an apprenticeship in the countryside management sector. When taken alongside further Level 3 qualifications, it supports access to a range of higher education courses in the countryside management sector.

No prior study of the sector is needed but learners should normally have a range of achievement at Level 2, in GCSEs or equivalent qualifications.

What does this qualification cover?

The content of this qualification has been developed in consultation with employers and professional bodies to ensure that the content is appropriate for those interested in working in the sector. In addition, higher education representatives have been involved to ensure that it supports progression to higher study.

There are three mandatory units, which cover the following areas of countryside management:

- professional working responsibilities
- work experience in the land-based sector
- countryside estate skills activities.

Learners will be able to add two optional units to the mandatory content. The optional units have been designed to support progression to a range of employment opportunities in the countryside management sector and, when taken alongside other Level 3 qualifications, to a range of higher education courses. The optional units introduce learners to a sector-specialist area of their choice such as:

- woodland management
- develop a land-based enterprise
- identification, planting and care of trees
- wildlife ecology and conservation management
- controlling countryside pests and predators
- gamekeeping.

All learners taking this qualification will be required to engage with sector employers as part of their course, including 75 hours of work experience with an employer in the sector, where opportunities will be given to develop practical skills in preparation for employment.
What could this qualification lead to?
This qualification will prepare learners for direct employment in the countryside management sector, and is suitable for those wishing to enter a particular area of work, such as:
- trainee estate operative
- trainee reserve warden.

The Pearson BTEC Level 3 National Extended Certificate in Countryside Management is generally taken alongside other Level 3 qualifications as part of a two-year programme of learning, so learners will be able to progress to a range of specialist degree programmes.

The qualification is intended to carry UCAS points and is recognised by higher education providers as meeting admission requirements to many relevant courses. For example, if taken alongside A Levels in Biology and Chemistry, or a BTEC Level 3 National Diploma in the relevant field of study, such as Applied Science or Business, it could lead to:
- BSc (Hons) in Countryside and Environmental Management
- BSc (Hons) in Countryside Management
- BSc (Hons) in Landscape Management
- BSc (Hons) in Wildlife Conservation.

Learners should always check the entry requirements for degree programmes with specific higher education providers.

Learners may also progress to a Higher Apprenticeship.

How does the qualification provide employability and technical skills?
In the BTEC National units, there are opportunities during the teaching and learning phase to give learners practice in developing employability skills. Where employability skills are referred to in this specification, we are generally referring to skills in the following three main categories:
- **cognitive and problem-solving skills**: using critical thinking, approaching non-routine problems applying expert and creative solutions, using systems and technology
- **interpersonal skills**: communicating, working collaboratively, negotiating and influencing, self-presentation
- **intrapersonal skills**: self-management, adaptability and resilience, self-monitoring and development.

There are also specific requirements in some units for assessment of these skills where relevant, for example, where learners are required to undertake real or simulated activities.

Many of the mandatory and specified optional units encourage learners to develop the specific practical skills that employers are looking for.

How does the qualification provide transferable knowledge and skills for higher education?
All BTEC Nationals provide transferable knowledge and skills that prepare learners for progression to university or other higher study either immediately or for career progression. The transferable skills that universities value include:
- the ability to learn independently
- the ability to research actively and methodically
- the ability to give presentations and be active group members.

BTEC learners can also benefit from opportunities for deep learning where they are able to make connections among units and select areas of interest for detailed study. BTEC Nationals provide a vocational context in which learners can become prepared for lifelong learning through:
- effective writing
- analytical skills
- creative development
- preparation for assessment methods used in a degree.
2 Structure

Qualification structure

Pearson BTEC Level 3 National Extended Certificate in Countryside Management*

Mandatory units

There are three mandatory units, two internal and one external. Learners must complete and achieve at Near Pass grade or above all mandatory external units. Learners must complete and achieve a Pass or above in all mandatory internal units in Group A.

Learners must complete the mandatory internal unit in Group B.

Optional units

Learners must complete at least two optional units.

Learners must complete and achieve at pass grade or above in at least two units across groups B and C.

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<thead>
<tr>
<th>Unit number</th>
<th>Unit title</th>
<th>GLH</th>
<th>Type</th>
<th>How assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Mandatory units group A – learners complete and achieve all units</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Professional Working Responsibilities</td>
<td>120</td>
<td>Mandatory</td>
<td>External</td>
</tr>
<tr>
<td>5</td>
<td>Countryside Estate Skills Activities</td>
<td>60</td>
<td>Mandatory and Synoptic</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td><strong>Mandatory units group B – learners complete the unit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Work Experience in the Land-based Sectors</td>
<td>60</td>
<td>Mandatory</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td><strong>Optional units group C – learners complete two units</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Woodland Management</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
<tr>
<td>8</td>
<td>Identification, Planting and Care of Trees</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
<tr>
<td>9</td>
<td>Developing a Land-based Enterprise</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
<tr>
<td>11</td>
<td>Wildlife Ecology and Conservation Management</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
<tr>
<td>12</td>
<td>Controlling Countryside Pests and Predators</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
<tr>
<td>13</td>
<td>Gamekeeping</td>
<td>60</td>
<td>Optional</td>
<td>Internal</td>
</tr>
</tbody>
</table>

* This qualification is not currently recognised by DFE for performance measures.
External assessment

This is a summary of the type and availability of external assessment, which is of units making up 33 per cent of the total qualification GLH. See Section 5 and the units and sample assessment materials for more information.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Type</th>
<th>Availability</th>
</tr>
</thead>
</table>
| **Unit 1: Professional Working Responsibilities** | • A task set and marked by Pearson and completed under supervised conditions.  
• The supervised assessment is 3 hours in a specified session timetabled by Pearson.  
• Written submission of evidence.  
• 60 marks. | Jan and May/June First assessment January 2020                      |

Synoptic assessment

The mandatory synoptic assessment requires learners to select and apply learning from across the qualification to the completion of defined key vocational tasks.

Within the assessment for Unit 5: Countryside Estate Skills Activities learners plan and manage a range of countryside estate skills activities to meet the needs of countryside users and countryside purposes, and oversee the work of others carrying out practical tasks.

Learners complete the tasks using knowledge, understanding and skills from their studies of the sector, applying both transferable and specialist knowledge and skills, including from: Unit 1: Professional Working Practices – knowledge and skills of professional and safe working practices in relation to themselves and others, health and safety, risk management, waste management and review of responsibilities and practices; Unit 4: Work-Experience in the Land-based Sectors – knowledge and skills of standard working principles and practices derived from work experience gained in the sector, relevant legislation and work behaviour.

In assessing this unit assignments will require learners to select from and apply their learning from across their programme. The unit provides further information.

Employer involvement in assessment and delivery

You need to ensure that learners on this qualification have a significant level of employer involvement in programme delivery or assessment. See Section 4 for more information.
3 Units

Understanding your units

The units in this specification set out our expectations of assessment in a way that helps you to prepare your learners for assessment. The units help you to undertake assessment and quality assurance effectively.

Each unit in the specification is set out in a similar way. There are two types of unit format:

- internal units
- external units.

This section explains how the units work. It is important that all teachers, assessors, internal verifiers and other staff responsible for the programme review this section.

Internal units

<table>
<thead>
<tr>
<th>Section</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit number</td>
<td>The number is in a sequence in the sector. Numbers may not be sequential for an individual qualification.</td>
</tr>
<tr>
<td>Unit title</td>
<td>This is the formal title that we always use and it appears on certificates.</td>
</tr>
<tr>
<td>Level</td>
<td>All units are at Level 3 on the national framework.</td>
</tr>
<tr>
<td>Unit type</td>
<td>This shows if the unit is internal or external only. See structure information in Section 2 for full details.</td>
</tr>
<tr>
<td>GLH</td>
<td>Units may have a GLH value of 120, 90 or 60. This indicates the numbers of hours of teaching, directed activity and assessment expected. It also shows the weighting of the unit in the final qualification grade.</td>
</tr>
<tr>
<td>Unit in brief</td>
<td>A brief formal statement on the content of the unit that is helpful in understanding its role in the qualification. You can use this in summary documents, brochures etc.</td>
</tr>
<tr>
<td>Unit introduction</td>
<td>This is designed with learners in mind. It indicates why the unit is important, how learning is structured, and how learning might be applied when progressing to employment or higher education.</td>
</tr>
<tr>
<td>Learning aims</td>
<td>These help to define the scope, style and depth of learning of the unit. You can see where learners should be learning standard requirements ('understand') or where they should be actively researching ('investigate'). You can find out more about the verbs we use in learning aims in Appendix 2.</td>
</tr>
<tr>
<td>Summary of unit</td>
<td>This new section helps teachers to see at a glance the main content areas against the learning aims and the structure of the assessment. The content areas and structure of assessment are required. The forms of evidence given are suitable to fulfil the requirements.</td>
</tr>
<tr>
<td>Content</td>
<td>This section sets out the required teaching content of the unit. Content is compulsory except when shown as 'e.g.'. Learners should be asked to complete summative assessment only after the teaching content for the unit or learning aim(s) has been covered.</td>
</tr>
<tr>
<td>Section</td>
<td>Explanation</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Assessment criteria</strong></td>
<td>Each learning aim has Pass and Merit criteria. Each assignment has at least one Distinction criterion. A full glossary of terms used is given in <em>Appendix 2</em>. All assessors need to understand our expectations of the terms used. Distinction criteria represent outstanding performance in the unit. Some criteria require learners to draw together learning from across the learning aims.</td>
</tr>
<tr>
<td><strong>Essential information for assignments</strong></td>
<td>This shows the maximum number of assignments that may be used for the unit to allow for effective summative assessment, and how the assessment criteria should be used to assess performance.</td>
</tr>
<tr>
<td><strong>Further information for teachers and assessors</strong></td>
<td>The section gives you information to support the implementation of assessment. It is important that this is used carefully alongside the assessment criteria.</td>
</tr>
<tr>
<td><strong>Resource requirements</strong></td>
<td>Any specific resources that you need to be able to teach and assess are listed in this section. For information on support resources see <em>Section 10</em>.</td>
</tr>
<tr>
<td><strong>Essential information for assessment decisions</strong></td>
<td>This information gives guidance for each learning aim or assignment of the expectations for Pass, Merit and Distinction standard. This section contains examples and essential clarification.</td>
</tr>
<tr>
<td><strong>Links to other units</strong></td>
<td>This section shows you the main relationship among units. This section can help you to structure your programme and make best use of materials and resources.</td>
</tr>
<tr>
<td><strong>Employer involvement</strong></td>
<td>This section gives you information on the units that can be used to give learners involvement with employers. It will help you to identify the kind of involvement that is likely to be successful.</td>
</tr>
</tbody>
</table>
## External units

<table>
<thead>
<tr>
<th>Section</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit number</strong></td>
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<tr>
<td><strong>Unit in brief</strong></td>
<td>A brief formal statement on the content of the unit.</td>
</tr>
<tr>
<td><strong>Unit introduction</strong></td>
<td>This is designed with learners in mind. It indicates why the unit is important, how learning is structured, and how learning might be applied when progressing to employment or higher education.</td>
</tr>
<tr>
<td><strong>Summary of assessment</strong></td>
<td>This sets out the type of external assessment used and the way in which it is used to assess achievement.</td>
</tr>
<tr>
<td><strong>Assessment outcomes</strong></td>
<td>These show the hierarchy of knowledge, understanding, skills and behaviours that are assessed. Includes information on how this hierarchy relates to command terms in sample assessment materials (SAMs).</td>
</tr>
<tr>
<td><strong>Essential content</strong></td>
<td>For external units all the content is obligatory, the depth of content is indicated in the assessment outcomes and sample assessment materials (SAMs). The content will be sampled through the external assessment over time, using the variety of questions or tasks shown.</td>
</tr>
<tr>
<td><strong>Grade descriptors</strong></td>
<td>We use grading descriptors when making judgements on grade boundaries. You can use them to understand what we expect to see from learners at particular grades.</td>
</tr>
<tr>
<td><strong>Key terms typically used in assessment</strong></td>
<td>These definitions will help you analyse requirements and prepare learners for assessment.</td>
</tr>
<tr>
<td><strong>Resources</strong></td>
<td>Any specific resources that you need to be able to teach and assess are listed in this section. For information on support resources see Section 10.</td>
</tr>
<tr>
<td><strong>Links to other units</strong></td>
<td>This section shows the main relationship among units. This section can help you to structure your programme and make best use of materials and resources.</td>
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</tr>
</tbody>
</table>
Index of units

This section contains all the units developed for this qualification. Please refer to pages 5–6 to check which units are available in all qualifications in the countryside management sector.

<table>
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<tr>
<th>Unit</th>
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<tbody>
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<td>Unit 4</td>
<td>Work Experience in the Land-based Sectors</td>
<td>29</td>
</tr>
<tr>
<td>Unit 5</td>
<td>Countryside Estate Skills Activities</td>
<td>39</td>
</tr>
<tr>
<td>Unit 7</td>
<td>Woodland Management</td>
<td>49</td>
</tr>
<tr>
<td>Unit 8</td>
<td>Identification, Planting and Care of Trees</td>
<td>59</td>
</tr>
<tr>
<td>Unit 9</td>
<td>Developing a Land-based Enterprise</td>
<td>69</td>
</tr>
<tr>
<td>Unit 11</td>
<td>Wildlife Ecology and Conservation Management</td>
<td>77</td>
</tr>
<tr>
<td>Unit 12</td>
<td>Controlling Countryside Pests and Predators</td>
<td>87</td>
</tr>
<tr>
<td>Unit 13</td>
<td>Gamekeeping</td>
<td>99</td>
</tr>
</tbody>
</table>
Unit 1: Professional Working Responsibilities

Level: 3
Unit type: External
Guided learning hours: 120

Unit in brief

Learners study professional responsible working practices with a focus on ensuring health and safety, wellbeing, resource management and waste management in the land-based sectors.

Unit introduction

The land-based sectors are made up of diverse industries, with the majority of people being self-employed. The sectors directly manage almost 90% of the UK’s land mass. Promoting and maintaining welfare, health and safety, and effective waste management in the working environment is essential for all the sectors. It is also a key requirement for the development of all employees.

In this unit, you will investigate the impact that professional working responsibilities have on personal welfare. You will learn about health and safety legislation, safe working practices, risk assessments, and the professional skills required to work safely and effectively in the land-based sectors. You will develop skills in and knowledge of good practice and professional responsibility towards self and others in the workplace, including the duty of care for the environment, relating this to resource efficiency and responsible management. You will develop your skills to interpret appropriate policies, plans, audits, maps and schematic diagrams in relation to safe working practices, reducing the impact of waste, and analysing documentation to review operational plans. You will develop a sound understanding of personal and professional responsibilities required to enter employment, with a strong awareness of how to be safe and keep others safe. To complete the assessment task within this unit, you will need to draw on your learning from across your programme.

This unit will prepare you for progression to employment in a trainee or supervisory role in the land-based sectors or to set up your own land-based business. You will also gain skills that prepare you for further or higher education courses, including agricultural science, plant science, environmental studies and land management.

Summary of assessment

This unit is assessed by a task set by Pearson.

In the assessed task, learners are given information and will complete a number of activities demonstrating their knowledge and understanding of professional working responsibilities.

The task will be carried out under supervised conditions in a single three-hour session timetabled by Pearson.

The number of marks for the unit is 60.

The assessment availability is January and May/June each year. The first assessment availability is January 2020.

Sample assessment materials will be available to help centres prepare learners for assessment.
Assessment outcomes

**AO1** Demonstrate knowledge and understanding of personal and professional working responsibilities and practices, risk management and waste management in the land-based sectors.

**AO2** Analyse the application of personal and professional working responsibilities and practices, to risk management, and waste management in the land-based sectors.

**AO3** Evaluate approaches to working personal and professional responsibilities and practices, risk management, and waste management in the land-based sectors.

**AO4** Make connections between principles and practices of health and safety management in the land-based sectors.
Essential content

The essential content is set out under content areas. Learners must cover all specified content before the assessment.

A Professional responsibilities associated with the workplace

A1 Characteristics of professional working responsibilities and sources of relevant information

- Understanding the scope of professional working responsibilities in the land-based sectors, including:
  - compliance with current legislation and industry codes of practice
  - minimising risk to self, others and the environment
  - following industry best practice
  - working to industry standards
  - developing skills through continuing professional development (CPD).

- Stakeholders associated with developing, promoting and upholding professional responsibilities, including the role of:
  - employers
  - employees
  - government departments and agencies
  - trades unions
  - professional bodies and trade associations.

- Sources of information on professional working responsibilities, including:
  - staff handbooks, staff lists and staff induction documents
  - internet-based resources, including government legislation
  - professional publications
  - codes of conduct
  - contracts of employment.

A2 Characteristics and scope of personal responsibilities in the workplace

- Promoting a working environment and culture that is healthy, safe and effective, including awareness of the role of:
  - industry schemes
  - employer awareness campaigns
  - external training programmes and training providers
  - workplace policies, including whistleblower policies.

- Promoting effective working relationships.

- Awareness of factors that may have a negative impact on own and others’ personal welfare and workplace performance, including:
  - personal stress
  - illness
  - work-related stress and workload
  - lone working.

- Accessing sources of assistance and support for wellbeing in the workplace, and their importance, including:
  - NHS services
  - charities
  - professional and trade organisations
  - professional counselling and mental health organisations
  - industry schemes.
UNIT 1: PROFESSIONAL WORKING RESPONSIBILITIES

• Awareness of the importance of CPD, including:
  o formal and informal opportunities for skills development
  o job shadowing
  o upskilling
  o awareness of industry-specific certificates of competence.

B Health and safety responsibilities

B1 Introduction to health and safety and associated legislation

Awareness of current health and safety legislation that applies in a working environment and how legislation impacts on working activities.

• Statutes and regulations current at the time of assessment:
  o Management of Health and Safety at Work Regulations 1999
  o Health and Safety at Work etc. Act 1974
  o Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013
  o Control of Substances Hazardous to Health (COSHH) Regulations 2002
  o Manual Handling Operations Regulations 1992
  o Work at Height Regulations 2005
  o Provision and Use of Work Equipment Regulations (PUWER) 1998
  o Lifting Operations and Lifting Equipment Regulations (LOLER) 1998
  o The Electricity at Work Regulations 1989.

• Health and safety audit, including:
  o analysis of previous incidents and near misses
  o identifying good practice, poor practice and gaps in health and safety policies and procedures
  o suggesting improvements
  o setting objectives
  o considering cost–benefit implications of issues identified and improvements suggested.

B2 Safe working practices

Awareness of key concepts of safe working practices, with reference to health and safety and the environment.

• The importance of training staff and implementing policies and practices in order to maintain appropriate standards in health and safety practices.
• Access to adequate welfare facilities, including drinking water, toilets, wash facilities.
• Provision of an appropriate and safe working environment, including ventilation, temperature, lighting and adequate maintenance of the working area.
• Provision of first-aid training and equipment, including first aid at work training.
• Using personal protective equipment (PPE) correctly, including when:
  o operating, maintaining and repairing machinery
  o handling organic or hazardous substances
  o requiring protection from ultraviolet (UV) light
  o requiring protection from weather conditions.
• Minimising risk of disease, including:
  o wearing correct clothing
  o using the correct equipment and in the correct manner
  o practising appropriate standards of biosecurity, including hygiene and self-awareness
  o awareness of causes and symptoms of common diseases affecting those working in land-based sectors, including legionnaires’ disease, leptospirosis, tetanus, salmonella, Lyme disease, E. coli, cryptosporidium.
• Safe use of machinery, including standard operating procedures (SOPs) for common land-based machinery and the consequences if SOPs are not followed.
• Fire safety, including:
  o fire alarms, extinguishers and blankets
  o ensuring combustible materials are stored in a safe and appropriate way
  o taking reasonable steps to minimise risk of fire and arson in buildings and in the
    environment.
• Producing and displaying an evacuation plan for all areas, including evacuation in the
  event of fire.
• Electrical safety, including:
  o requirement for all electrical work to be carried out by a competent person
  o ensuring all electrical equipment is in an appropriate state for use
  o portable appliance testing (PAT) and residual current devices (RCDs)
  o overhead lines and underground cables
  o using rechargeable equipment and tools where appropriate.
• Displaying safety information, including symbols on machinery and product labels.
• Signage, including:
  o fire safety signage
  o signs prohibiting certain behaviour
  o warning signs
  o signs prescribing specific behaviour
  o signs indicating emergency escape or first aid.
• Reporting of accidents and near misses.
• Importance of working in ways that avoid or minimise negative environmental impacts,
  including:
  o knowledge and application of legislation relevant to environmental impacts
  o being aware of the potential environmental impact, both negative and positive,
    of activities carried out in the workplace
  o steps that can be taken in order to minimise the negative environmental impacts of
    work carried out.

B3 Risk assessment
The requirement to carry out risk assessments, dynamic risk assessments and the relationship to
current relevant legislation.
• Using and interpreting risk assessments:
  o written or static risk assessments prepared before the activities
  o dynamic risk assessment carried out while undertaking activities
  o qualitative or subjective analysis of risk
  o numerical or objective analysis of risk, including severity and likelihood,
    hierarchy of controls.
• Risk mitigation strategies and their implementation to manage identified risks, including:
  o cost–benefit analysis of specific mitigation strategies.
• Producing dynamic risk assessments:
  o presence of the general public, employees and contractors
  o interpretation of given information, including product labels, signage and COSHH
    data sheets
  o lone working practices.

B4 Schematics and maps
The importance of maps and schematic diagrams in establishing the locations of services and
drainage, for purposes relating to health and safety, land management and the environment.
• Interpreting and using maps and schematics at a variety of scales.
• Using maps and schematics to analyse and record information, including:
  o the role of Global Positioning System (GPS), aerial photographs and online
    mapping services.
• Determining and checking the location of services, both overground and underground.
• Equipment and techniques required to locate services accurately, including the:
  o use of cable avoidance tool (CAT) and Genny
  o importance of safe digging techniques
  o importance of isolating services, including gas, water and electric.

B5 Purpose of risk assessment
• Uses and implementation of risk assessments.
• Scenarios for risk assessment use:
  o application of health and safety, environmental and waste management policies and procedures
  o response to a specific incident, including incidents reported in the press
  o the permanent or temporary change of use of land or buildings
  o the purchase or installation of new equipment
  o the development of a new enterprise or new methods of working
  o implementing new initiatives, including changes to legislation.

C Managing waste responsibly and safely
Classify waste, understand the relevant legal responsibilities and develop waste management strategies that consider the cost–benefit implications of waste management.

C1 Animal, plant and non-organic waste
• Definition and sources of organic and inorganic wastes in the land-based sectors, including:
  o aggregates, plastics and metals
  o biodegradable waste
  o controlled waste
  o hazardous waste
  o dirty or foul water
  o grey water.
• Awareness that designated areas in the working environment have specific types of items and processes for waste disposal and management.

C2 Legal responsibilities for waste management
• Current waste management legislation and documentation specific to land-based sectors, including:
  o duty of care
  o waste exemptions
  o waste disposal documentation
  o hazardous and controlled waste
  o custody of waste.
• The waste hierarchy system, including:
  o prevention, including procurement to reduce waste
  o prepare to reuse
  o recycle
  o other recovery, including incineration, anaerobic digestion and gasification, and pyrolysis with energy recovery
  o disposal, including landfill and incineration without energy recovery.
• The potential impact of waste and waste disposal on sustainability, climate change and the environment, including:
  o advantages and disadvantages
  o social factors
  o economic factors
  o environmental factors.
• Innovations in waste management.
C3  Environmental and waste management policies, plans and audits

Documents and processes related to health, safety, the environment and waste management.
• Use of audits to establish the current situation in a business or enterprise.
• Audit procedures, including frequency, checklists, logs, metering and measurements.
• The role of audits to inform or update plans and policies.
• Financial implications and cost–benefit analysis of waste storage and disposal, including:
  o economic advantages and disadvantages of specific waste management strategies
  o environmental advantages and disadvantages of specific waste management strategies.
Grade descriptors

To achieve a grade learners are expected to demonstrate these attributes across the essential content of the unit. The principle of best fit will apply in awarding grades.

Level 3 Pass

Learners will demonstrate knowledge and understanding of basic professional working and safe working in a land-based setting. Learners will demonstrate that they can apply safe working practices to a given context. They will identify areas of good practice, areas where standards could be raised and outline basic methods of doing this. Learners will be able to make some connections between the risks that are associated with a specific activity in a given context, with a range of variables. Learners will apply some valid concepts to the correct and safe management of different types of waste, they will understand the need to apply legal and environmental considerations to this and the management of resources, and its link to sustainability.

Level 3 Distinction

Learners will demonstrate detailed knowledge and understanding of professional working and safe working in a land-based setting. Learners will demonstrate that they can apply justified safe working practices to a given context. They will identify areas of good practice, areas where standards could be raised and outline accurate recommendations for doing this, using a detailed and appropriate action plan. Learners will be able to make appropriate and justified connections between the risks that are associated with a specific activity in a given context, with a range of variables. Learners will apply accurate and detailed concepts to the correct and safe management of different types of waste, they will understand the need to apply legal and environmental considerations to this and the management of resources, and its link to sustainability.

Key words typically used in assessment

The following table shows the key words that will be used consistently by Pearson in our assessments to ensure learners are rewarded for demonstrating the necessary skills.

Please note: the list below will not necessarily be used in every paper/session and is provided for guidance only.

<table>
<thead>
<tr>
<th>Command or term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyse</td>
<td>Learners present the outcome of methodical and detailed examination either:</td>
</tr>
<tr>
<td></td>
<td>• to discover the meaning or essential features of a theme, topic or situation</td>
</tr>
<tr>
<td></td>
<td>• by breaking something down into its components or examining factors methodically and in detail</td>
</tr>
<tr>
<td></td>
<td>• by identifying separate factors, stating how they are related and explaining how each one contributes to the topic.</td>
</tr>
<tr>
<td>Complete</td>
<td>Learners enter relevant information or data as required to a structured item such as a table or diagram.</td>
</tr>
<tr>
<td>Dynamic risk assessment</td>
<td>The process of identifying risks and hazards continuously and in response to changes in situations and activities.</td>
</tr>
<tr>
<td>Command or term</td>
<td>Definition</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Evaluate</td>
<td>Learners review information before bringing it together to form a conclusion or come to a supported judgement of a subject’s qualities in relation to its context, drawing on evidence: strengths, weaknesses, alternative actions, significance, relevant data or information.</td>
</tr>
<tr>
<td>Health and safety audit</td>
<td>The auditing of information on the effectiveness of health and safety policies and procedures.</td>
</tr>
<tr>
<td>Interpretation</td>
<td>Learners are able to draw the meaning, purpose or qualities of something from a stimulus.</td>
</tr>
</tbody>
</table>
| Justify/Justification| Learners give reasons or evidence to:  
  - support an opinion and/or decision  
  - prove something right or reasonable.                                                                                                                |
| Recommend            | Learners put forward someone or something with approval as being suitable for a particular purpose or role.                                                                                               |
| Strategies           | Method or plan to bring out a desired outcome, such as the achievement of a goal or solution to a problem.                                                                                                    |
| Waste management plan | A plan for the disposal of a range of waste materials, showing consideration of legal requirements, environmental responsibilities and sustainability.                                                           |
Links to other units

This unit links to Unit 4: Work Experience in the Land-based Sectors.

Employer involvement

This unit would benefit from employer involvement in the form of:

- masterclasses
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 4: Work Experience in the Land-based Sectors

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners research work opportunities in the land-based sectors and the skills needed to attain them, developing communication and employability skills through study and work experience.

Unit introduction

Where do you picture yourself in five years’ time? Do you know about the wide range of career opportunities open to you in the land-based sectors? Discovering these opportunities and understanding the skills and qualifications needed in order to gain employment in these sectors will help you to answer these questions as well as to plan your career.

In this unit, as well as investigating employment opportunities, you will examine how good communication and employability skills can improve your prospects in gaining and staying in employment. You will learn how and where to access information about employment vacancies and further courses of study as well as how to develop your curriculum vitae (CV) and adapt it for specific vacancies. You will also learn how to develop good communication, interview and customer service skills. You will apply for and take on available work experience roles in the sector and reflect on your own progress.

This unit will help prepare you for employment in the land-based sectors in areas such as forestry, arboriculture, aquaculture, landscaping, horticulture, fencing, fisheries management, floristry, gamekeeping, conservation, countryside management and wildlife management, and their related service industries. It will also help you progress to higher education in courses such as BSc (Hons) degrees in agriculture, countryside management, horticulture and forestry management.

Learning aims

In this unit you will:

A Investigate employment opportunities in the land-based sectors to target progression
B Develop communication and interview skills to improve employment prospects in the land-based sectors
C Undertake work experience in the land-based sectors to contribute to personal and professional development.
### Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
</tr>
</thead>
</table>
| **A** Investigate employment opportunities in the land-based sectors to target progression | A1 Scope of the land-based sectors  
A2 Requirements for progression  
A3 Relevant legislation for work placement opportunities | A portfolio of work-related learning research, completed application documents and mock interview outcomes, e.g. observation, video. |
| **B** Develop communication and interview skills to improve employment prospects in the land-based sectors | B1 Applying for work-related activities  
B2 Interview skills  
B3 Reflecting on preparation and performance |  |
| **C** Undertake work experience in the land-based sectors to contribute to personal and professional development | C1 Practical work experience  
C2 Work behaviours  
C3 Reflecting on workplace practice | A report reflecting on work experience, informed by employer verification of participation and other feedback. |
Content

Learning aim A: Investigate employment opportunities in the land-based sectors to target progression

A1 Scope of the land-based sectors
- Analysis of progression opportunities to determine desirability, suitability and feasibility.
- Land-based sectors – appropriate broad representation of current industries, e.g. production crops, agricultural livestock, aquaculture, environmental conservation, countryside management, fencing, fisheries management, floristry, gamekeeping and wildlife management, land-based engineering, landscaping, production and amenity horticulture, forestry and arboriculture.
- Opportunities – the range of career and progression opportunities available within chosen sector and opportunities within related sectors, e.g. retail, leisure, tourism, hospitality.
- Higher education – UCAS, entry requirements, student loans.
- Apprenticeships – requirements, timescales, pay scales, balance between academic and practical work, assessment, higher apprenticeships.
- Employment sectors:
  - public sector, e.g. education, government, local government, countryside officer/ranger, public grounds and parks
  - private sector, e.g. country parks, garden centres
  - voluntary sector or charities, e.g. wildlife trusts, wildlife parks.
- Employment sectors, to include an appropriate broad representation of current industries, e.g. agricultural sales, food production, aquaculture, floristry, production horticulture, land-based engineering.
- Self-employment, e.g. gamekeeper, agricultural contractor, arborist, gardener.

A2 Requirements for progression
Knowledge of formal and informal requirements for progression.
- Entry criteria, including qualifications, skills and knowledge.
- Self-management, including study skills, presentation and attitude, time management and planning.
- Exit criteria for specific progression routes.
- Soft skills, including communication, problem solving, individual and team and leadership skills, personal management.

A3 Relevant legislation for work placement opportunities
- Safeguarding at work placements.
- Contracts of employment and working hours (in relation to age), including zero-hours contracts/ fixed-term/hourly-paid/permanent (full-/part-time) contracts, Working Time Regulations 1998, Pay As You Earn (PAYE), statutory leave, maternity/paternity leave, employment status.
- Different legal status of business: single owner (self-employed)/partnership/limited company/self-employed subcontractor.
- Awareness of the impact of current legislation supporting conduct in the workplace for employers and employees (full-time, part-time, casual, interns and work placements), such as:
  - Health and Safety at Work etc. Act 1974
  - Equality Act 2010
  - Data Protection Act 1998
  - Control of Substances Hazardous to Health (COSHH) Regulations 2002
  - Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013
Learning aim B: Develop communication and interview skills to improve employment prospects in the land-based sectors

B1 Applying for work-related activities
• Selection of work, including different sources of vacancies such as websites, trade publications and sector-wide bodies, e.g. Lantra.
• Importance of reading job description, personal specification, including relevance of essential or desirable criteria, to include qualifications, skills, experience.
• Completion of CV and adapting CV or job application to specified vacancy.
• Letters of application, supporting statements and completing application forms, to include standing out from the crowd, addressing relevance to employers and how they might shortlist candidates.
• Correct use of language, grammar, spelling and punctuation.

B2 Interview skills
Creating an impression through effective communication.
• Preparation and presentation skills, including:
  o planning and practice for the interview
  o interview styles, e.g. competency or behaviour-based, knowledge-focused
  o personal appearance and hygiene
  o interpersonal skills and attitude
  o body language.
• Listening and talking skills, including:
  o interview conventions
  o use of language – what is/what is not appropriate
  o building rapport
  o developing a dialogue
  o effective listening and questioning
  o non-verbal communication, e.g. eye contact.

B3 Reflecting on preparation and performance
• Reflecting on preparation for interviews and interview performance, including knowledge of employer and role, communication skills, professional behaviour.

Learning aim C: Undertake work experience in the land-based sectors to contribute to personal and professional development

C1 Practical work experience
Operating in workplace practices, including:
• knowledge of the purpose of the business and/or environment
• knowledge of reporting procedures with regard to behaviour and expectations, e.g. lateness, sickness, emergency
• health and safety protocols, e.g. fire safety, emergency procedures
• procedures to maintain confidentiality.
C2 Work behaviours

• Completion of role to add value in the workplace:
  o understanding the extent and limitation of own roles and responsibilities
  o carrying out tasks according to roles and responsibilities
  o following instructions
  o communicating with others
  o self-management
  o working safely
  o reliability, regular attendance and commitment
  o punctuality
  o use of initiative
  o cooperation with colleagues and end users, e.g. customers, clients, other organisations.

• Obtaining feedback, including:
  o timesheets signed by an appointed person at work experience employment, confirming appropriate attendance and punctuality
  o employer or teacher observation/witness statements
  o employer feedback sheets, provided at intervals.

C3 Reflecting on workplace practice

Reflecting on personal performance in relation to own career progression, to include:

• formative feedback from employer(s), colleagues, teacher, stakeholders
• performance self-assessment
• review of areas for development, to include SWOT (strengths, weaknesses, opportunities, threats) analysis, SMART (specific, measurable, achievable, relevant, time-based) target setting, knowledge of SWOT and SMART in learning development.
## Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
<th>Merit</th>
<th>Distinction</th>
</tr>
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<tbody>
<tr>
<td><strong>Learning aim A: Investigate employment opportunities in the land-based sectors to target progression</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>A.P1</strong> Explain the value of own research and preparation carried out for work experience, related opportunities and progression routes.</td>
<td><strong>A.M1</strong> Analyse the value of own research and preparation carried out for work experience, related opportunities and progression routes.</td>
<td><strong>A.D1</strong> Evaluate how effective preparation for work experience can significantly enhance employment prospects.</td>
</tr>
<tr>
<td><strong>A.P2</strong> Explain accurately the relevant legislation relating to a work placement.</td>
<td></td>
<td><strong>B.D2</strong> Evaluate own preparation for and performance in work experience interview, including review of all future opportunities.</td>
</tr>
<tr>
<td><strong>Learning aim B: Develop communication and interview skills to improve employment prospects in the land-based sectors</strong></td>
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</tr>
<tr>
<td><strong>B.P3</strong> Explain the preparation and research carried out for a work experience interview.</td>
<td><strong>B.M2</strong> Perform proficiently as an interviewee for a selected work experience, using appropriate communication and interpersonal skills.</td>
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</tr>
<tr>
<td><strong>B.P4</strong> Demonstrate communication and interpersonal skills as an interviewee for a selected work experience.</td>
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<tr>
<td><strong>Learning aim C: Undertake work experience in the land-based sectors to contribute to personal and professional development</strong></td>
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</tr>
<tr>
<td><strong>C.P5</strong> Explain how the work experience undertaken has improved occupational and personal skills for future opportunities.</td>
<td><strong>C.M3</strong> Assess the value of the occupational and personal skills developed during work experience for future opportunities.</td>
<td><strong>C.D3</strong> Evaluate the effectiveness of the work experience carried out in improving occupational and personal skills to make best use of opportunities for employment.</td>
</tr>
<tr>
<td><strong>C.P6</strong> Review how own performance during work experience contributed to the employer.</td>
<td><strong>C.M4</strong> Analyse the impact on the employer of own performance during work experience.</td>
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</tr>
</tbody>
</table>
Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aims: A and B (A.P1, A.P2, B.P3, B.P4, A.M1, B.M2, A.D1, B.D2)
Learning aim: C (C.P5, C.P6, C.M3, C.M4, C.D3)
Further information for teachers and assessors

Resource requirements
For this unit, learners must have access to a work experience role, for example work placement, part-time work, volunteering etc. Employers must be external to the centre. Teachers should consider devising a set of criteria they can use to give feedback when carrying out practice interviews.

Essential information for assessment decisions

Learning aims A and B

For distinction standard, learners will produce a written report evaluating the quality of their own preparation when seeking work experience. This will include their investigation and research carried out, completion of application documents adapted for specific roles, and completion of a mock interview or employer-evidenced real interview. The report will include conclusions about the quality of each step of the preparation, linking this to the teacher’s evaluation of the mock interview and the chance of securing employment. Learners will write a conclusion that includes clear understanding of best practice in this area.

For merit standard, learners will produce a written analysis of the quality of their own preparation when seeking work experience. This will include their investigation and research carried out, completion of application documents adapted for specific roles, and completion of a good mock interview or employer-evidenced real interview. The analysis will include a detailed examination of each step of the preparation, linking this to the chance of securing employment. Learners will include an analysis of the teacher’s evaluation of the mock interview.

For pass standard, learners will consider the value of their own preparation when seeking work experience, for example investigation and research carried out, completion of application documents adapted to specific roles, and completion of a mock interview or employer-evidenced real interview. Learners will include links to the teacher’s evaluation of the mock interview. Learners could include a SWOT analysis.

Learning aim C

Learners need to review and reflect on their time undertaking work experience. This will relate to the number of hours required by the qualification.

For distinction standard, learners will undertake work experience and supply reasoning in their reflective reports to determine the effectiveness of the completed work experience and its capacity to improve their opportunities for employment. Their reasoning will consider the relationship between the occupational and personal skills developed during the work experience and how these may help them in securing future employment. The relationship between learners’ own performance during work experience and its impact on the employer will also be covered. Learners will consider how well they prepared themselves for the work experience activities in order to gain the most from the experience(s). Learners’ reflections should take account of employer and teacher feedback, and observations of them during their work experience.

For merit standard, learners will undertake work experience and present in their reflective reports a relationship between the occupational and personal skills developed during the work experience, and a discussion about how these skills will help secure employment. Learners will consider the relationship between their own performance during the work experience and its impact on the employer. Learners’ reflections should take account of employer and teacher feedback, and observations of them during their work experience.
For pass standard, learners will undertake work experience and present in their reflective reports a consideration of how they developed different occupational and personal skills during their placement. Learners will make a formal assessment of their own performance during work experience based on feedback, including a SWOT analysis, and link this to their contribution to the employer. Learners’ reflections should take account of employer and teacher feedback, and observations of them during their work experience.

Links to other units
This unit links with all others in the specification.

Employer involvement
This unit would benefit from employer involvement in the form of:
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 5: Countryside Estate Skills Activities

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners select and apply the skills required to undertake the key vocational task of management and maintenance of countryside environment physical infrastructure and habitats.

Unit introduction

A key part of the role of countryside rangers, wardens and estate managers is the management of the physical environment of the countryside. Employment in these roles means you need to be able to maintain, repair and install a variety of different structures, surfaces, boundaries and services. You will maintain habitats, ensuring that work is carried out efficiently and safely. You also need to be able to manage the contractors who carry out these types of task.

In this unit, you will manage estates skills activities, including the planning and implementation of projects carried out by you or others, such as staff or professional contractors. You will develop the knowledge and skills needed to manage the repair, maintenance and installation of the fabric of businesses and organisations that work in the countryside. You will draw on your knowledge of professional practice in the sector.

This unit contains the key vocational assessment task of planning and managing countryside estate skills operations. You will need to select and apply knowledge and skills that you developed in your study of the mandatory content and your wider learning from across the programme. You will also select and apply your knowledge and skills from Unit 1: Professional Working Responsibilities and will use your experience of the real work practices that you gained in Unit 4: Work Experience in the Land-based Sectors.

This unit will give you the skills you need to progress to employment as a fieldwork assistant, an assistant warden or to work as part of an estate management team. It is also an excellent introduction to a degree in estate management.

Learning aims

In this unit you will:

A Explore estate skills for the management and maintenance of habitats and environments
B Plan estate skills operations for countryside management
C Carry out estate skills activities to meet the needs of countryside maintenance and management.
## Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Explore estate skills for the management and maintenance of habitats and environments</td>
<td><strong>A1</strong> Countryside estate skills&lt;br&gt;<strong>A2</strong> Estate skills methods, equipment and materials&lt;br&gt;<strong>A3</strong> Methods of working and workforce supervision</td>
<td>Recommended portfolio evidence includes:&lt;br&gt;- an investigation of countryside management estate skills activities and working methods&lt;br&gt;- the demonstration of selected practical estate skills tasks.</td>
</tr>
<tr>
<td><strong>B</strong> Plan estate skills operations for countryside management</td>
<td><strong>B1</strong> Assessing needs&lt;br&gt;<strong>B2</strong> Planning activities</td>
<td>The planning and management of countryside estate skills activities to meet the needs of countryside users. Recommended evidence includes:&lt;br&gt;- surveys&lt;br&gt;- planning documents – schedules, job specifications&lt;br&gt;- logbooks, observation records and witness statements of activities undertaken&lt;br&gt;- a review management performance. Learners will be expected to select and apply learning from other mandatory units and optional units as appropriate.</td>
</tr>
<tr>
<td><strong>C</strong> Carry out estate skills activities to meet the needs of countryside maintenance and management</td>
<td><strong>C1</strong> Working professionally&lt;br&gt;<strong>C2</strong> Supervising activities&lt;br&gt;<strong>C3</strong> Evaluating estate skills activities</td>
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</tr>
</tbody>
</table>
Content

Learning aim A: Explore estate skills for the management and maintenance of habitats and environments

A1 Countryside estate skills
The form and function of countryside elements.

- Boundaries, including:
  o deer or rabbit fencing, electric fencing, stock fencing, and post and rail fencing
  o decorative fencing.
- Surfaces, including:
  o paths, tracks, rides, accommodation flooring, grassed surfaces
  o drainage of surfaces, including field drains.
- Structures to provide for countryside management, including:
  o field structures, e.g. field shelters, stiles and way markers, greenhouses
  o gates and water troughs
  o internal structures, e.g. drinkers, stall furniture and feeders
  o finishes, including paints, varnishes and preservatives.
- Supply, distribution or storage of mains services and utilities, including:
  o water and gas, including bottled gas, electricity, fuel, oil
  o sewerage, including mains, cesspit and septic tank.
- Habitat maintenance for countryside management, including:
  o weed and invasive plant control, scrub clearance, hedgerow cutting and layering
  o wildlife refuges, e.g. nesting and resting boxes, woodpiles, hedgehog tunnels.

A2 Estate skills methods, equipment and materials
Skills, methods, equipment and materials used in the maintenance, repair, installation and construction of countryside elements.

- Common, general purpose tools:
  o hand tools, e.g. hammers, screwdrivers, saws
  o power tools, e.g. drills, mitre saws, sanders.
- Specialised tools:
  o hand tools, e.g. fence strainers, wire strand jointing clamps, billhooks, tap wrenches
  o power tools, e.g. stone cutters, brushcutters, chainsaws.
- Materials:
  o basic construction materials, e.g. wood, concrete, woodchip, tarmac,
    type 1 aggregate, fencing, galvanised sheets, polypropylene piping
  o coatings and their application, e.g. paint, preservatives, varnishes.
- Specialist equipment, e.g. cement mixer, generator, ATV, non-contact electrical testing.
- Construction and repair methods used for estate skills activities:
  o measuring and marking out horizontal and vertical straight lines, angles and curves
  o cutting, shaping and smoothing methods for wood, metal, stone/concrete, pipework and cables
  o fixings and jointing for wood, metal, plasterboard, stone/concrete, pipework and cables.
- Methods of correct storage, transport and maintenance of tools, equipment and materials for security, condition and safety:
  o use of lockers, storage racks, storage boxes, holdalls
  o grinding, sharpening, lubrication methods and materials
  o fault finding, replacement of worn or broken parts.
UNIT 5: COUNTRYSIDE ESTATE SKILLS ACTIVITIES

- Practical estates activities:
  - maintenance, repair construction and installation of boundaries, surfaces, structures
  - drainage
  - habitats
  - isolation of mains services in the event of leaks or for maintenance, repair, construction and installation activities
  - use of basic equipment to locate underground or hidden services
  - installation of temporary electric supply
  - repair, maintenance or installation of systems to supply water.

A3 Methods of working and workforce supervision

- Advantages and disadvantages of different methods of workforce organisation, including, lone working, use of in-house skills and labour, use of contractors, skilled practitioners.
- Identifying skill sets, e.g. internal workforce, external contractors.
- Working standards – novice, competent and professional practitioner – to include working to time, quality of finished product, efficiency of working methods, environmental impacts.
- Communicating maintenance, repair, construction and installation needs to in-house teams and outside contractors, to include raising orders, issuing instructions orally and in writing, getting estimates and quotations, commissioning contractors and understanding contracts.
- Using written communication skills, including using correct spelling, punctuation and grammar, adopting different styles, e.g. formal and informal.
- Using oral communication skills:
  - using tone, inflexion and style when speaking
  - using aids, e.g. maps, plans.

Learning aim B: Plan estate skills operations for countryside management

In undertaking the key vocational task, planning and carrying out estate skills operations and activities, learners must select and apply learning from Unit 1: Professional Working Responsibilities and Unit 4: Working in the Land-based Sectors.

B1 Assessing needs

- Inspection of boundaries, surfaces, structures, services and habitats.
  - Inspecting boundaries, surfaces, habitats and structures for their maintenance, repair, construction and installation needs.
  - Inspection and basic fault finding of electrical circuits and devices using non-contact test equipment.
  - Inspection of drainage, gas and water services for leaks and blockages.
  - Methods and processes for reporting inspection findings, to include verbal and written, use of appropriate maps, plans and diagrams.

B2 Planning activities

- Accounting for regulations and codes of practice relating to flora and fauna.
- Health and safety, e.g. risk assessments, personal protective equipment (PPE).
- Assessing ranges and quantities, e.g. use of maps, diagrams, plans, measurements, estimates.
- Scheduling one-off or regular tasks, e.g. daily, monthly, annually.
- Job specifications, to include job description and rationale, timescales, tools, equipment, materials, location of work, costs, skill sets, health and safety considerations, environmental issues and supervising arrangements.
- Sourcing tools, equipment, materials, skill sets, e.g. internal workforce, external contractors.
- Processes and aids to planning activities, including budgets, schedules and flow charts.
- The use of IT in raising and monitoring repair and maintenance tasks.
- Communications with contractors and employees to ensure efficient planning.
- Creating evaluation frameworks for assessing workforce management, to include: communications, supervision and monitoring, contingency planning, reporting outcomes.
Learning aim C: Carry out estate skills activities to meet the needs of countryside maintenance and management

C1 Working professionally
- Compliance with appropriate health and safety regulations and guidance.
- Preparation of the work area.
- Selection, transportation and use of the correct tools, equipment and materials.
- Waste disposal in accordance with regulations.
- Maintaining and storing tools, equipment and materials.

C2 Supervising activities
- Ensuring the work is proceeding according to expectations, e.g. site visits, problem solving and evaluating the progress of estate skills activities, ensuring compliance with specifications, checking the progress of work against the specification, regulations and codes of practice and risk assessments.
- Using problem-solving skills to assess issues, examine alternative solutions, decide on a course of action, implement solutions and monitor outcomes.

C3 Evaluating estate skills activities
Process for reviewing and evaluating estate skills activities.
- Use of contingency actions and problem-solving techniques.
- Timing – planned against actual time taken.
- Identifying inefficient working practices.
- Monitoring actual costs against estimates and identifying cost overruns.
- Examining specifications to improve clarity and eliminate ambiguity.
- Monitoring compliance with regulations, guidance and advice notes.
- Assessing communication to identify improvements.
- Using evaluation frameworks to enable assessment of completed activities and workforce management:
  - evaluating processes and completed products, including compliance with specifications, regulations, and codes of practice and risk assessments
  - communicating evaluation outcomes, ensuring correct task completion, including situations where there is a dispute.
# Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
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<tr>
<td><strong>Learning aim A: Explore estate skills for the management and maintenance of habitats and environments</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.P1 Explain working methods and practices for carrying out estate skills activities.</td>
<td>A.M1 Assess approaches to managing estate skills activities.</td>
<td>A.D1 Evaluate methods and approaches used to manage estate skills activities, referencing own performance of complex estate skills demonstrated to a professional standard.</td>
</tr>
<tr>
<td>A.P2 Appropriately select and apply estates skills tasks.</td>
<td>A.M2 Effectively select and apply complex estates skills tasks.</td>
<td></td>
</tr>
<tr>
<td><strong>Learning aim B: Plan estate skills operations for countryside management</strong></td>
<td></td>
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</tr>
<tr>
<td>B.P3 Select and use inspection techniques for estates skills activities.</td>
<td>B.M3 Select and use inspection techniques, performing detailed inspections and producing a complex estate skills management plan with a rationale for selected planning decisions.</td>
<td>B.D2 Justify selected planning decisions for comprehensive estate skills activities from own detailed inspections, arising from the selection and use of inspection techniques.</td>
</tr>
<tr>
<td>B.P4 Produce an estate skills management plan, explaining reasons for selected planning decisions.</td>
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<tr>
<td><strong>Learning aim C: Carry out estate skills activities to meet the needs of countryside maintenance and management</strong></td>
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</tr>
<tr>
<td>C.P5 Manage own tasks and workforce supervision of professional estate skills activities, reviewing the effectiveness of tasks.</td>
<td>C.M4 Effectively manage own tasks and workforce supervision of professional estate skills activities, analysing the effectiveness for countryside management.</td>
<td>C.D3 Fully manage own tasks and workforce supervision for complex professional estate skills activities, justifying the effectiveness of approaches adopted and detailing improvements.</td>
</tr>
</tbody>
</table>
Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aim: A (A.P1, A.P2, A.M1, A.M2, A.D1)
Learning aims: B and C (B.P3, B.P4, C.P5, B.M3, C.M4, B.D2, C.D3)
Further information for teachers and assessors

Resource requirements

For this unit, learners must have access to:

- a range of common and specialist hand tools, including power tools and testing equipment
- suitable PPE
- a wide range of suitable estate skills activities, including the provision of mains and temporary services.

Essential information for assessment decisions

Learning aim A

In completing the assessment, learners should draw on knowledge of working practices from Unit 1: Professional Working Responsibilities and of sector standards from Unit 4: Work Experience in the Land-based Sectors.

For distinction standard, learners will produce a comprehensive analysis of different estate skills activities and the importance of carrying them out to a good standard, together with a detailed examination of working practices with well-reasoned analysis of their effectiveness in different situations, including the consequences where methods and practices do not meet expected standards.

Learners will carry out complex activities that require multiple operations, using appropriate equipment and a variety of tools and materials. Activities will be undertaken efficiently, accurately and completely, meeting an agreed specification that includes working to the standard of a professional practitioner.

For merit standard, learners will demonstrate a broad understanding of a range of estate skills activities to show the need for good maintenance, repair and installation of environments and habitats. They will be able to show detailed links between estate skills activities, good construction methods, working practices, methods of working and supervision. They will identify the impact of these on the effectiveness of environmental and habitat management.

Learners will carry out complex activities for a range of estate skills tasks that require multiple operations, using appropriate equipment and a variety of tools and materials. Activities will be undertaken efficiently, accurately and completely, meeting an agreed specification that includes working to the standard of a competent employee.

For pass standard, learners will explain the importance of maintenance, repair and installation estate skills activities. They will explain the need for good working practices, including good storage, transport and maintenance of tools, materials and equipment. Learners will explain different construction methods, methods of working, for example lone working, use of contractors; and the factors affecting workforce supervision.

Learners will carry out a range of simple estate skills activities, requiring few operations and a limited range of tools and materials. Activities will be undertaken efficiently, accurately and completely, meeting an agreed specification that includes working to the standard of a novice employee.

Learning aims B and C

In completing the assessment for learning aims B and C, learners must individually plan and carry out countryside estate skills activities. They are required to independently select, apply and demonstrate appropriate knowledge and skills relating to working practices from Unit 1: Professional Working Responsibilities and of sector standards from Unit 4: Work Experience in the Land-based Sectors.
For distinction standard, learners will conduct surveys of countryside establishments. They will use a range of appropriate test equipment independently and proficiently. They will readily understand complex estate skills issues, considering causes and making connections with usage and consequences if unaddressed, exploring the situation thoroughly. Learners will present meticulous findings in the form of annotated maps, plans, diagrams and accompanying notes. They will be assured in their assessment of issues and their decisions in respect of repair, maintenance or installation needs.

Learners will produce comprehensive and flexible plans, reprioritising tasks where appropriate in order to use time and resources efficiently. Plans will include a detailed appraisal of work required and a thoroughly considered, time-specific schedule of work. Learners will give a clear rationale for all their recommendations, demonstrating detailed awareness of the influence of relevant governing legislation and codes of practice, and the impact on the establishment if the work is delayed or not completed. Job specifications produced will be comprehensive. Learners will show that they have considered how their plans will be effective in terms of, for example, use of resources, completion of tasks, meeting identified needs.

Learners will manage a complex estate skills activity that requires multiple operations, using appropriate equipment and a variety of tools and materials. Activities will be undertaken efficiently, accurately and completely, fully meeting the plan they have devised for the task.

Learners will review the qualitative standard of practical work undertaken to improve the completion of activities, supporting their views with reasoned judgements.

Learners will carry out effective and comprehensive workforce supervision that demonstrates clear, concise, unambiguous, oral and written communications suited to the recipients, such as contractors or colleagues.

Learners will delegate responsibilities appropriately, according to skill sets and resources. They will monitor and assess task progression, advising only when necessary, using positive and flexible problem-solving skills when needed. They will assess the completed task against the specification and communicate their findings concisely and assertively.

Learners will draw up a valid and reliable evaluation framework to use when justifying their approaches to management of completed activities. They will identify specific areas where their management of the task could have improved efficiency, safety or cost-effectiveness and will make valid recommendations to achieve this.

For merit standard, learners will conduct surveys of countryside establishments. They will use a range of appropriate test equipment safely and without supervision. They will interrogate the causes of issues, suggesting remedial action and, where appropriate, prevention in relation to repair, maintenance or installation needs. They will explore the complexity of faults and issues, considering less obvious factors. Learners will present detailed findings in the form of annotated maps, plans, diagrams and accompanying notes.

Learners will plan proactively with clear timescales for repair, maintenance and installation needs. Their plans will clearly demonstrate an understanding of the need to prioritise work and an appreciation of realistic timescales and resources. Their planning will demonstrate a detailed assessment of the work required and a time-specific schedule of work. Consideration will be given to relevant governing legislation and codes of practice. Job specifications produced will be clear and detailed.

Learners will manage a complex estate skills activity that requires multiple operations, using appropriate equipment and a variety of tools and materials. Learners will demonstrate best workplace practice by ensuring safety in accordance with relevant legislation and fulfilling the plan they have devised for the task.

Learners will review approaches adopted and their own work in light of the job specification and the standard achieved, giving valid suggestions for improvements in activities.

Learners will demonstrate they can communicate clearly and appropriately with a workforce, such as contractors or colleagues, both orally and in writing.
Learners will delegate responsibilities. They will accurately assess the progress of a complex task and demonstrate problem-solving skills when needed. They will communicate appropriately their assessment of the progress of a task.

Learners will use an accurate framework to analyse the approaches and implementation of maintenance and management, covering all key issues, developments and factors that were affected.

**For pass standard**, learners will conduct surveys of countryside establishments. They will use a range of appropriate test equipment, under supervision where necessary. Learners will understand major issues and correctly identify methods of repair, maintenance or installation. They will record correct findings appropriate to each situation surveyed, presenting the information in the form of annotated maps, plans, diagrams and accompanying notes. The notes and annotations will give clear reasoning for their findings.

Learners’ plans will address key repair, maintenance and installation needs, correctly prioritising works using broad timescales. Where appropriate, their plans will take into account governing legislation and codes of practice. Job specifications produced will contain key information.

Learners will manage an estate skills activity, demonstrating acceptable workplace practice, including ensuring safe working practice in accordance with relevant legislation and following the plan they have devised.

Learners will demonstrate that they can issue workforce instructions, both orally and in writing. They will carry out supervision of activities, including checks on progress and identifying obvious issues that may hinder task completion to the specification. Where problems occur, learners will make suggestions and may intervene directly. Learners will give feedback to the workforce on the progress of the task.

Learners will use a framework to review the approaches and implementation of maintenance and management, covering key issues and developments.

**Links to other units**

For the Pearson BTEC National Extended Certificate in Countryside Management and the Pearson BTEC National Foundation Diploma in Countryside Management, this unit should be completed towards the end of the programme. In order to complete the synoptic assessment task in this unit, learners should build on their learning from across the mandatory content, selecting and applying appropriate knowledge and skills, including safe working practice from **Unit 1: Professional Working Responsibilities** and sector standards and approaches from **Unit 4: Work Experience in the Land-based Sectors**.

**Employer involvement**

This unit would benefit from employer involvement in the form of:

- masterclasses and technical workshops involving staff from local countryside- and land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 7: Woodland Management

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners develop the skills needed to manage woodland environments, from initial structure and condition surveys to undertaking practical tasks to manage biodiversity.

Unit introduction

Well-managed woodlands, with a variety of structural features, contribute greatly to the biodiversity of the UK. Several key indicator species, such as the silver-washed fritillary butterfly, dormouse and pied flycatcher, depend on properly managed woodlands for their survival. In commercial forestry management (silviculture), efficient timber production takes priority, but the environment also provides key habitats for specialist species. People also enjoy using woodlands as places for informal recreation. Managing woodlands correctly to meet these diverse demands has become an issue of renewed importance for countryside workers.

In this unit, you will focus on the management of UK woodlands, investigating elements of the woodland ecosystem. You will learn to recognise and survey key features of woodland habitats and suggest woodland management techniques to ensure a diversity of habitats. You will develop practical woodland habitat management skills to help meet the aims of management planning.

Completion of this unit will help you prepare for employment in a number of roles such as an education officer or assistant woodland officer. You could also progress to the role of an advanced apprentice, or following further study, to higher education courses such as Forestry (BSc) or Ecology and Wildlife Conservation (BSc).

Learning aims

In this unit you will:

A Understand woodland types and habitats to manage biodiversity
B Understand the structure and condition of a woodland environment to plan its management
C Undertake practical woodland management to enhance the woodland environment.
## Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
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<tbody>
<tr>
<td><strong>A</strong> Understand woodland types and habitats to manage biodiversity</td>
<td><strong>A1</strong> Natural and planted UK woodlands</td>
<td>A report exploring management methods used to enhance biodiversity for two different types of woodland.</td>
</tr>
<tr>
<td></td>
<td><strong>A2</strong> Woodland biodiversity</td>
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<td></td>
<td><strong>A3</strong> Woodland habitats and their management</td>
<td></td>
</tr>
<tr>
<td><strong>B</strong> Understand the structure and condition of a woodland environment to plan its management</td>
<td><strong>B1</strong> Woodland structure and features</td>
<td>Portfolio of evidence, to include:</td>
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<tr>
<td></td>
<td><strong>B2</strong> Woodland condition and ecology</td>
<td>• structural and ecological woodland surveys</td>
</tr>
<tr>
<td><strong>C</strong> Undertake practical woodland management to enhance the woodland environment</td>
<td><strong>C1</strong> Managing woodland habitats safely</td>
<td>• brief woodland management plan</td>
</tr>
<tr>
<td></td>
<td><strong>C2</strong> Managing habitats for wildlife conservation</td>
<td>• evidence of practical woodland management tasks</td>
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<td></td>
<td></td>
<td>• a report on the effect of practical management tasks on biodiversity.</td>
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</tbody>
</table>
Content

Learning aim A: Understand woodland types and habitats to manage biodiversity

A1 Natural and planted UK woodlands

The history and purpose of natural and planted UK woodlands.

- **Historical overview:**
  - initial special colonising following Ice Age
  - human impact on woodland cover, to include the first gatherers, Mesolithic man, the first farmers, Neolithic man, Bronze Age, Iron Age, Domesday Book, 20th-century industrialisation and agriculture
  - the role of the Forestry Commission.

- **Silviculture woodland:**
  - structure and features, e.g. clear-fell, planting arrangement
  - current Forestry Commission policies and species trials
  - key conifer species and their end use
  - impacts of conifers on the landscape.

- **Grazed woodland:**
  - structure and features, e.g. livestock use, pollarding
  - protection of trees from browsing through pollarding.

- **Coppiced woodland:**
  - structure and features, e.g. standards, coppice stalls
  - aims of pure coppice stands, e.g. hazel, sweet chestnut, willow.

- **Ancient woodland:**
  - structure and features, e.g. ancient trees, wood banks.

A2 Woodland biodiversity

The ecology of common national and regional species of flora and fauna.

- **National species:**
  - trees and shrubs, e.g. oak, ash, birch, hazel, hawthorn
  - flowers, e.g. bluebell, wood anemone, dog’s mercury, lesser celandine, honeysuckle
  - woodland birds, e.g. chiffchaff, great spotted woodpecker, nuthatch, goldcrest, tawny owl
  - mammals, e.g. common shrew, wood mouse, stoat, muntjac deer, pipistrelle bat
  - invertebrates, e.g. speckled wood, lesser stag beetle, wood ants, wasps.

- **Regional species:**
  - trees and shrubs, e.g. lime, Sitka spruce, juniper
  - woodland birds, e.g. pied flycatcher, capercaillie, jay
  - mammals, e.g. red squirrel, Scottish wild cat, polecat
  - invertebrates, e.g. chequered skipper, purple hairstreak, stag beetle
  - locally important species, e.g. flowers, fungi, bryophytes, mosses, rushes, sedges, grasses
  - protected species and the laws pertaining to them, e.g. dormice, great crested newt, bats.
A3 Woodland habitats and their management

Habitat types and management methods.
- Glades – mowing, strimming, scrub removal.
- Rides – scalloping, retention of pinch points, mowing.
- Dead wood, standing, fallen and hanging – making safe, non-intervention.
- Hedges – cutting, laying, planting.
- Streams and ponds – clearing and reducing vegetation, creating hibernacula.
- Coppice compartment:
  - length and sequence of a coppice rotation
  - selection of standards, their density and distribution
  - consideration of the height of cut.
- Standard trees – pollarding.
- Impacts of management on biotic and abiotic conditions.

Learning aim B: Understand the structure and condition of a woodland environment to plan its management

B1 Woodland structure and features

- Characteristics of the vertical structure, including the ground, herbaceous, shrub and tree layers:
  - species within each layer
  - class of tree using the DAFOR (dominant, abundant, frequent, occasional, rare) scale
  - British National Vegetation Classification (NVC).
- Characteristics of the horizontal structure, including ponds, streams, ditches, glades, rides, woodland margins, dead wood, cord wood, boundaries, e.g. walls, wood banks, hedgerows and veteran trees.
- Features, including war trenches, water pumping stations, old railway lines, forts, pits, tumuli, ancient trackways, earthworks, barrows, saw pits, charcoal platforms.
- Research sources for obtaining historic, land-use data, e.g. historic maps, records office, archaeological societies.

B2 Woodland condition and ecology

Assessing the condition of woodland biodiversity.

- Signs of pests and diseases:
  - common pests, including deer, squirrel, rabbit, caterpillar, beetles
  - regional pests, e.g. boar, beaver
  - common diseases, including Dutch elm disease, chestnut leaf miner, acute oak decline, ash dieback, Phytophthora ramorum
  - signs of pests, including ring barking, browse line, bore holes, tracks
  - signs of diseases, including crown dieback, leaf discoloration, defoliation, canker.
- Impact of pests and disease on woodland environment, including habitat loss, clearfell, reduction in economic value.
- Ecological surveys:
  - selection and use of equipment for surveying species of flora or fauna, to include quadrats, transects, measuring tapes, nets, light meters, thermometers, pitfall traps, Longworth traps, movement sensor camera, clinometers, recording sheets.
- Surveying process:
  - diversity and abundance, setting out equipment, seasonal considerations, timing of survey, legal considerations
  - interpretation of data using frequency, e.g. mean, median, mode
  - presentation of data, including tables and graphs.
Learning aim C: Undertake practical woodland management to enhance the woodland environment

C1 Managing woodland habitats safely
- Health and safety procedures when working in woodland habitats, to include:
  - personal protective equipment (PPE)
  - preparation and use of risk assessment; risks, e.g. to learners, public
  - correct selection of tools and equipment for undertaking tasks
  - safe transport, carrying and use of tools and equipment
  - safe working procedures to ensure protection of self and others.
- Correct maintenance of tools and equipment, including cleaning and storage.
- Practical management techniques, including coppicing, pruning, thinning, cutting or mowing.
- Protection of coppiced stools from browsing animals.
- Removal of cut material or use as dead hedging, wildlife habitats.

C2 Managing habitats for wildlife conservation
Impact of practical management on woodland habitats.
- Recognition of the positive effect of woodland habitat management work on biodiversity.
- Methods to minimise potentially harmful effects of habitat management on sensitive features by careful management of waste.
- Awareness of woodland ecology to manage the timing of management works.
- Identification of species being managed.
### Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
<th>Merit</th>
<th>Distinction</th>
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<tbody>
<tr>
<td><strong>Learning aim A: Understand woodland types and habitats to manage biodiversity</strong></td>
<td></td>
<td>A.D1 Evaluate the effectiveness of woodland management strategies to enhance biodiversity.</td>
</tr>
<tr>
<td>A.P1 Explain the relationship between woodland type and biodiversity.</td>
<td>A.M1 Analyse the habitat management methods used to enhance biodiversity in woodlands.</td>
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<tr>
<td>A.P2 Discuss how habitat management methods enhance biodiversity.</td>
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<tr>
<td><strong>Learning aim B: Understand the structure and condition of a woodland environment to plan its management</strong></td>
<td></td>
<td>B.D2 Produce an industry-standard woodland management plan based on own survey and secondary research.</td>
</tr>
<tr>
<td>B.P3 Perform competent woodland structure and ecological surveys.</td>
<td>B.M2 Perform comprehensive woodland structure and ecological surveys.</td>
<td>B.D3 Evaluate the ecological impact of own practical woodland management tasks.</td>
</tr>
<tr>
<td>B.P4 Produce a basic woodland management plan based on own survey and secondary research.</td>
<td>B.M3 Demonstrate efficient management of woodland habitats.</td>
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</tr>
<tr>
<td><strong>Learning aim C: Undertake practical woodland management to enhance the woodland environment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.P5 Perform safe management of woodland habitats.</td>
<td>C.M4 Demonstrate efficient management of woodland habitats.</td>
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</tr>
<tr>
<td>C.P6 Explain contribution of woodland management tasks in enhancing biodiversity.</td>
<td>C.M5 Assess anticipated impact of management tasks on woodland ecology.</td>
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</tbody>
</table>
Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aim: A (A.P1, A.P2, A.M1, A.D1)
Learning aims: B and C (B.P3, B.P4, C.P5, C.P6, B.M2, B.M3, C.M4, C.M5, B.D2, C.D3)
Further information for teachers and assessors

Resource requirements
For this unit, learners must have access to a range of:

- commonly used hand tools
- woodlands to visit, with differing species, structures and purpose
- woodland habitats to carry out practical management tasks.

Essential information for assessment decisions

Learning aim A

For distinction standard, learners will use the case studies of two different types of woodland to provide a thorough, detailed and accurate account of the differences between woodland types and habitat characteristics. They will draw on a depth of knowledge and synthesis of understanding from across the learning aims to provide clear and logical reasoning as to the consequent ecology of the woodlands.

Using the case studies, learners will provide a detailed discussion of the objectives of planned habitat management, and a clearly reasoned account of how it affects biotic and abiotic conditions, and its impact on the woodland ecology. Their account will include a comprehensive case study, reviewing the success or failure of the management strategy, to positively affect a target species. They will show evidence of their full appreciation of the interrelationship between the target species and other named species and their environment. Detailed statistical evidence will be presented and accurately interpreted.

For merit standard, learners will use case studies of two different types of woodland to demonstrate their understanding of the interrelationship between woodland types and habitat characteristics, and the range of flora and fauna species found in each.

In considering habitat management in the two woodlands, learners will provide detailed information of the methods selected and their intended outcomes. They will show a clear understanding of the relationship between these methods and the impact on biotic and abiotic conditions. Learners will clearly demonstrate an understanding of the complexity of the relationship between management methods undertaken, and the response of the target species and other species found in the woodlands. Statistical evidence will be presented and there will be some interpretation of the figures.

For pass standard, learners will use case studies to provide details of two different types of woodland from the unit content, referring to superficial differences between woodland types, and listing key flora and fauna species found in each. Learners will demonstrate an understanding of the link between each woodland type and habitat characteristics, and the wildlife identified within it.

Learners will consider how appropriate woodland management methods can be used to improve the habitat for wildlife. They will outline the chief objectives of a planned habitat management strategy, providing information on the processes and methods used. They will demonstrate some understanding of the relationship between management undertaken and the response of target species. Learners will show a basic knowledge of the connection between the management of the target species and the impact on other species found in the woodlands.

Learners will present a simple data table to support their discussions.
Learning aims B and C

For distinction standard, learners will carry out proficient visual surveys, identifying the full range of structures and features. Valid conclusions as to the presence or absence of pests and diseases will be clearly based on available evidence. Learners will engage fully in ecological surveys, providing full and accurate findings.

Learners will produce a systematically considered management plan of at least seven objectives, with at least two specific activities for each objective. The given timescale to meet the objectives will evidence robust consideration of the timeframes required. Meticulous secondary research will be evidenced, including copies of historical maps, and recorded evidence of historical land use.

Learners will actively promote safety throughout woodland management tasks, ensuring the safety of themselves and others, anticipating dangers and acting accordingly. They will prepare and operate tools and equipment safely and to industry standard. Woodland management tasks will be conducted thoroughly throughout, with meticulous attention to detail and according to instructions given in the task brief.

In their report, learners will clearly demonstrate an understanding of the complex links between the tasks undertaken and the impact on woodland ecology, providing examples of the abiotic and biotic consequences, such as changes in temperature, humidity and light, and the impact on wildlife.

For merit standard, learners will complete accurate and detailed visual surveys, identifying a broad range of structures and features. Evidence of the presence or absence of pests and diseases will be carefully considered. Learners will actively carry out ecological surveys, providing a detailed record of findings.

In their management plan, learners will produce at least five objectives, with at least two specific activities for each objective. The given timescale to meet the objectives will be logical and realistic. Detailed secondary research will be evidenced, such as the inclusion of copies of historical maps, or recorded evidence of historical land use.

Learners will work safely and show an awareness of potential dangers to themselves and others. They will prepare and use required tools and equipment safely and competently. Woodland management tasks will be undertaken in a time-efficient manner, with clear reference to the brief.

In their report, learners will make some connections between the tasks undertaken and the potential impacts on the woodland ecology.

For pass standard, learners will complete visual surveys mostly accurately, identifying limited structures, features, and indicating the presence or absence of major pests and diseases. Learners will carry out ecological surveys using correct equipment and methods, as indicated in the unit content, and presenting limited data.

In their management plan, learners will produce at least three objectives, with at least one general activity for each objective. The given timescale to meet the objectives will be realistic. Some secondary research will be evidenced, such as the inclusion of copies of historical maps.

Learners will carry out woodland management tasks safely, which will include assessing the site for trip hazards and other dangers such as overhanging dead wood, or the presence of broken glass or other rubbish. Learners will use appropriate PPE, such as gloves or suitable footwear. They will carry and use required tools and equipment safely and appropriately, ensuring that other personnel are not in danger from their activities, such as colleagues in line with falling trees. Learners will complete tasks in line with the brief given to them by the teacher, ranger or other supervisor.

Woodland management may include tasks such as coppicing, pruning, cutting or other activities given in the unit content. On completion of the task, learners will safely remove and store tools and equipment, and dispose of waste materials appropriately.

Learners will provide limited understanding of the link between the tasks undertaken and the impact on biodiversity.
Links to other units

This unit links to *Unit 1: Professional Working Responsibilities*.

Employer involvement

This unit would benefit from employer involvement in the form of:

- masterclasses
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 8: Identification, Planting and Care of Trees

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners develop the skills needed to plant trees and provide their aftercare, and the knowledge to identify trees using botanical nomenclature.

Unit introduction

Trees are one of the most amazing and diverse range of plants on the Earth, thriving in both urban and rural locations. Tree planting occurs for many reasons, including the management of native woodland, the shaping of the landscape, the production of edible fruit, or simply as ornamental, stand-alone specimens. Being able to correctly identify trees is essential for anyone working in the land-based sector, especially when selecting appropriate trees for planting.

In this unit, you will learn the correct botanical nomenclature and terminology used when identifying trees, as well as the individual characteristics that aid their identification. You will research a range of different trees suitable for a given area and select appropriate trees for planting, using your knowledge of their individual requirements. You will complete practical tasks in planting your chosen trees and providing aftercare so that they establish successfully. Understanding tree requirements and providing suitable surroundings and continued aftercare will mean that your trees will flourish and form a significant feature of the landscape for many years to come.

This unit will give you the skills to identify, plant and care for trees. These skills are a huge advantage for progression to employment in roles such as a greenkeeper, gardener in the grounds of a stately home, or an expert who recommends and sells plants in a garden centre. Alternatively, you may wish to continue your study to higher education, for example countryside management degrees.

Learning aims

In this unit you will:

A Understand botanical nomenclature and terminology for the purpose of tree identification
B Explore factors affecting selection of trees and their suitability for use in a given area
C Undertake planting and aftercare of trees in a given area.
## Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>A  Understand botanical nomenclature and terminology for the purpose of</td>
<td>A1 Terminology used in tree nomenclature</td>
<td>A written report on the biological nomenclature and tree characteristics that are used to identify trees, including their effectiveness.</td>
</tr>
<tr>
<td>tree identification</td>
<td>A2 Categorisation of trees</td>
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<td></td>
<td>A3 Characteristics of trees for identification</td>
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<tr>
<td>B  Explore factors affecting selection of trees and their suitability for</td>
<td>B1 Considerations affecting the choice of trees for specific areas</td>
<td>Research notes on the factors that affect the selection and suitability of trees for planting, using findings to select trees to plant in a given area.</td>
</tr>
<tr>
<td>use in a given area</td>
<td>B2 Factors affecting the suitability of trees</td>
<td></td>
</tr>
<tr>
<td>C  Undertake planting and aftercare of trees in a given area</td>
<td>C1 Preparation for planting</td>
<td>A portfolio of evidence showing how trees are selected, planting activities and aftercare to ensure trees establish successfully.</td>
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<td>C2 Planting methods</td>
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<td></td>
<td>C3 Providing aftercare</td>
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</tbody>
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Content

Learning aim A: Understand botanical nomenclature and terminology for the purpose of tree identification

Naming conventions and taxonomic categories used to identify trees based on their features, and the importance of using the correct terminology.

A1 Terminology used in tree nomenclature

- Plant classification order for trees:
  - kingdom
  - phyla, including gymnosperms and angiosperms
  - class, including monocotyledons and dicotyledons
  - family
  - genus
  - species
  - sub-species, variety, form, cultivar, hybrid.

- Importance of botanical names:
  - problems that occur using common plant names, including using the native tongue, regional differences, multiple common names for the same genus
  - binominal system for plant naming.

- Correct format for writing plant names:
  - correct use of capital letters, lower case letters, single quotation marks
  - correct use of symbols and abbreviations
  - correct use of descriptive names to aid identification, e.g. pendula, alba, macrophyllum.

A2 Categorisation of trees

Definition, categorisation and identification of trees from native and non-native species:

- broad-leaved trees
- ornamental trees
- evergreen trees
- conifers.

A3 Characteristics of trees for identification

Methods used to identify trees using tree features and characteristics.

- Morphological features and characteristics used in the identification of trees:
  - foliage, including bark, branch, twig, lenticels, node, internode
  - leaf arrangements, including alternate, opposite and whorled, leaf bud, petiolated and sessile
  - veination, including reticulated and parallel, simple and compound
  - leaf types, including cordate, ovate, lanceolate, linear, oblong, palmate, pinnate, trifoliate, lobed, needles, scales
  - leaf colour
  - flowers, including bud, petals, bract, singular, grouped, shape, colour, arrangement
  - succulent fruits, including berries, fruits, drupes
  - dried fruits, including nuts and seeds
  - seasonal features, including stems, foliage, flowers, seeds, fruits.
• Identification methods and tools:
  o tactile features, including smooth, soft, spiked, rough, spongy
  o smell, including fragrant flowers, foliage, sap
  o visual observations, including growth habit, height, spread
  o form, including oval, columnar, rounded, pyramidal, weeping, irregular, vase
  o illustrated textbooks, nursery catalogues, brochures and labels
  o technology, including smartphone apps
  o identification keys, including flow chart, dichotomous key.

• Sources of information and standards for classification, e.g. Forestry Commission, Royal Horticultural Society, the Woodland Trust.

Learning aim B: Explore factors affecting selection of trees and their suitability for use in a given area

Considerations affecting the selection of trees for planting in specific areas.

B1 Considerations affecting the choice of trees for specific areas

Plant requirements:
• preferred soil type, including clay, sand, silt, loam, pH
• nutrient requirements, including primary/macronutrients, secondary nutrients and trace elements for growth, rigour, establishment, flowering and fruiting
• aspect, including light and shade tolerance, space available, frost and sun pockets, protection, topography, air quality
• support needs, including stakes, canes, guards, guys, anchors, ties
• planting stock type, including bare root, root balled, containerised
• specific requirements, including protection and support type for individual trees, including Quercus, Fraxinus, Betula, Malus, Prunus, Salix, Juglans and Fagus; and for sizes of plant, including seedlings, whip, feathered whip, bush, standard, half-standard, budded/grafted, including maiden, feathered maiden.

B2 Factors affecting the suitability of trees

• Tree growth and habit:
  o size of tree at planting, growth speed, root spread, size, shape and appropriateness of tree for given purpose, including pyramidal, conical, columnar, spreading, rounded, vase shaped, broad.
• Surroundings that affect tree selection:
  o environmental factors, including buildings and structures, overhead and underground services, traffic, highways, climate and microclimate, exposure, drainage, uneven ground, preferred habitat, space
  o public access areas, footpaths, rights of way, potential issues of falling leaves, fruit, overhanging branches, maintenance access
  o aesthetic value, grouping and combinations, arboricultural merit, silvicultural merit
  o soil structure, texture, pH, drainage, nutrient value, depth, including impact on anchorage and support systems.
Learning aim C: Undertake planting and aftercare of trees in a given area

Consideration when preparing to plant, planting and providing aftercare of trees.

C1 Preparation for planting

- Assessing risk and working safely:
  - identification of hazards and risks around the work area (related to tools, equipment, people) and how these can be minimised, including essential personal protective equipment (PPE)
  - methods for working safely and minimising damage to working areas.
- Use and application of correct tools, materials and equipment to prepare ground for planting:
  - tools, including spade, rake, hoe, trowel, wheelbarrow
  - materials, including stakes, ties, guards, soil conditioners, organic matter, fertiliser base dressing
  - machinery, including cultivator, rotavator, excavator.
- Ground preparation:
  - cultivation by hand or machine, including correct depth, consolidation, level, addition of soil conditioners, ameliorants, fertilisers, anti-desiccants, as appropriate to area
  - removal of debris, weeds, organic and inorganic waste before planting and correct disposal.

C2 Planting methods

Activities undertaken to ensure optimum condition for planting and successful establishment.

- Use and application of correct tools and equipment for planting:
  - tools, including spades, e.g. Schlick, Mansfield, rake, hoe, trowel, secatuers, loppers, wheelbarrow
  - machinery, including hydraulic tree spades, rotary planters, augers.
- Tree preparation, including watering, removal of dead foliage and weeds, pruning.
- Planting:
  - safe working practices to minimise damage to working area and self
  - reviewing ground preparation
  - handling of trees to avoid damage
  - backfilling
  - safe disposal of waste, including organic and inorganic
  - safe removal of tools and equipment.

C3 Providing aftercare

Methods, equipment and materials used for successful establishment and growth.

- Tree protection, including support, e.g. stakes, guys, anchors and guards for protection from animals, people and weather.
- Initial aftercare to ensure successful establishment, including feeding, watering, pruning, mulching with organic and inorganic materials, disposal of waste, including organic and inorganic.
- Continued aftercare, including inspection, nutrition, watering, formative pruning, moisture retention, mulching, adjustment and removal of support, use of pesticides and herbicides.
## Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
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<th>Distinction</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Learning aim A: Understand botanical nomenclature and terminology for the purpose of tree identification</strong></td>
<td></td>
<td><strong>A.D1</strong> Evaluate the effectiveness of botanical nomenclature and characteristics in aiding tree identification.</td>
</tr>
<tr>
<td>A.P1 Explain the botanical nomenclature and terminology used to identify trees.</td>
<td><strong>A.M1</strong> Assess how botanical nomenclature and characteristics aid tree identification.</td>
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<tr>
<td>A.P2 Explain plant classification and different characteristics that aid identification.</td>
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</tr>
<tr>
<td><strong>Learning aim B: Explore factors affecting selection of trees and their suitability for use in a given area</strong></td>
<td><strong>B.D2</strong> Evaluate own selection of trees based on factors that affect selection and suitability for a given area.</td>
<td></td>
</tr>
<tr>
<td>B.P3 Explain the factors that affect the selection of trees in a given area.</td>
<td>B.M2 Analyse factors for own selection of trees for a given area.</td>
<td></td>
</tr>
<tr>
<td>B.P4 Explain own selection of trees for a given area.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Learning aim C: Undertake planting and aftercare of trees in a given area</strong></td>
<td><strong>C.D3</strong> Evaluate methods used to carry out planting and aftercare, with recommendations for future improvements.</td>
<td></td>
</tr>
<tr>
<td>C.P5 Demonstrate safe working practices when carrying out ground preparation, planting and aftercare to establish new trees.</td>
<td>C.M3 Demonstrate efficient working practices when preparing, planting and providing aftercare to establish new trees.</td>
<td></td>
</tr>
<tr>
<td>C.P6 Explain methods used to carry out planting and aftercare of trees.</td>
<td>C.M4 Analyse the impact of own methods used to carry out planting and aftercare.</td>
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**Essential information for assignments**

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. *Section 6* gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

- Learning aim: A (A.P1, A.P2, A.M1, A.D1)
- Learning aims: B and C (B.P3, B.P4, C.P5, C.P6, B.M2, C.M3, C.M4, B.D2, C.D3)
Further information for teachers and assessors

Resource requirements

For this unit, learners must have access to:

- a range of trees to study, from young whips to mature trees
- an area to plant and establish new trees
- appropriate, well-maintained tools, equipment and materials for preparing ground, planting and providing aftercare to trees
- suitable PPE.

Essential information for assessment decisions

Learning aim A

For distinction standard, learners will provide a thorough and detailed account of the effectiveness of biological nomenclature and physical plant characteristics when identifying trees. They will show depth of understanding by making detailed links between their use and tree identification, using well-selected, accurate examples of how this leads to positive identification. Learners will provide detailed reasoning as to the limitations of using descriptive biological nomenclature and characteristics to identify trees, using well-selected examples of negative identification.

Learners will consider identification methods and tools thoroughly, recommending those that lead to positive identification.

For merit standard, learners will examine the effectiveness of biological nomenclature and characteristics when identifying trees. They will demonstrate their understanding by making clear links between their use and tree identification, using appropriate examples of how this leads to positive identification. Learners will demonstrate awareness of the limitations of these methods to identify trees and support this through the use of examples and an explanation of some of the issues.

Learners will provide a clear understanding of identification methods and tools, and provide clear reasoning as to the link between the methods and positive identification.

For pass standard, learners will demonstrate clear understanding of the approach used in botanical nomenclature and the methods used to obtain a positive identification of trees using physical characteristics. Learners will demonstrate some awareness that there are limitations to their use.

Learners will provide details of a number of identification methods and tools, and the main reasons they may be selected for use.
Learning aims B and C

The assessment requires a given area to carry out the selection, preparation, planting and aftercare of trees.

For distinction standard, learners will demonstrate clear and detailed reasoning for their tree selection through a thorough examination of the given planting area, considering all relevant aspects that may affect successful tree establishment. This will include full details on the tree requirements for successful growth, meticulously linked to the site conditions. Learners will consider their choices carefully and fully justify their selection in relation to factors affecting suitability.

Learners will carry out planting and aftercare that is effective in supporting the successful establishment of their chosen trees. Learners will evidence clear ways to minimise risks and fully demonstrate competent safe working practices throughout. They will select correct tools, materials and equipment, using them safely and to industry standard. They will draw on knowledge from their learning to reflect on the decisions they made when planting and undertaking practical tasks. Efficient care to the tree will be provided throughout the planting and aftercare processes.

Learners will show a comprehensive understanding of tree requirements before planting, during planting and when providing aftercare to support the successful establishment of trees. Learners will review the methods they used for planting and aftercare to thoroughly explore where they were successful and where methods could be improved or carried out differently.

For merit standard, learners will provide evidence that they have researched different trees and tree types to select trees for planting that clearly match the site conditions and the likelihood of successful establishment. Learners will review their selection of trees, presenting well-documented evidence and making reasoned recommendations for their selection, providing clear links between the features of the given planting site and the selected trees.

Learners will carry out planting, showing they have optimised the given area through the preparation of the site and trees, planting with skill, and by demonstrating efficiency in the time taken, the resources used and the minimal disruption to the trees during the planting process. Learners will draw on their knowledge to consider ground conditions and prepare the area appropriately. They will assess the hazards and risks involved in carrying out the practical tasks and use the required tools, materials and equipment safely and competently.

Learners will show detailed knowledge of individual tree requirements in order to provide aftercare that helps to support successful establishment, for example providing tree stakes, ties and protection that match the age of the tree planted.

Learners will reflect on the methods they used and make clear connections to their impact on the successful establishment of trees.

For pass standard, learners will provide details of the features and characteristics of a given area and research a range of suitable trees for the area, demonstrating an understanding of different tree types, requirements and any limiting factors of the area to be planted. Learners will select a range of trees from those researched, making links between site characteristics and tree requirements.

Learners will work safely, with an awareness of the risks and potential issues arising when preparing the ground for planting trees, during the planting process, and when providing aftercare. Learners will use appropriate methods, tools and equipment to prepare and plant their selected trees, leaving the area clean and tidy on completion. Learners will provide basic aftercare for trees, which may include tree guards or support. On completion of the tasks, learners will safely remove and store tools, materials and equipment, disposing of waste materials appropriately.

Learners will provide reasons for their selected methods for tree planting and aftercare, demonstrating some understanding of the impact these methods have on the successful establishment of trees.
Links to other units
This unit links to Unit 4: Work Experience in the Land-based Sectors.

Employer involvement
This unit would benefit from employer involvement in the form of:

- masterclasses
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 9: Developing a Land-based Enterprise

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners develop the skills needed to prepare a business plan for a viable land-based enterprise, based on their own market research and financial feasibility study.

Unit introduction

Understanding the operation of any business is vital if it is to be successful. Employees need to have knowledge of the business environment and marketplace as well as good business management skills. The land-based sector is predominately made up of small and medium-sized businesses, and this provides many opportunities to set up your own business.

In this unit, you will learn about the features and resources, including human, physical and financial, and the processes that businesses operating in the land-based sector need. You will undertake a financial viability study, preparing cash flows, an income statement and a statement of financial position. You will undertake market research to identify a viable enterprise, leading to the production and presentation of a viable business start-up plan for a chosen land-based enterprise. These activities will prepare you for employment in the land-based sector in roles such as unit manager, or for self-employment in the sector. This unit will also enable you to progress to higher education courses such as a degree in land-based business management or relevant vocational degrees such as horticulture or countryside management.

Learning aims

In this unit you will:

A. Examine the features, resource requirements and processes of businesses operating in the land-based sector
B. Carry out market research to identify a financially viable land-based enterprise
C. Develop a business start-up plan for a viable land-based enterprise.
## Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
</tr>
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</table>
| A Examine the features, resource requirements and processes of businesses operating in the land-based sector | **A1** Features of land-based businesses  
**A2** Resource requirements of land-based businesses  
**A3** Land-based business processes and procedures | A report that investigates the key features, resource requirements and processes of a profit and a not-for-profit business operating in the land-based sector. |
| B Carry out market research to identify a financially viable land-based enterprise | **B1** Market research and analysis  
**B2** Financial feasibility of a land-based enterprise | A business start-up plan for a chosen enterprise for presentation to potential stakeholders, supported by market research and a financial viability analysis. |
| C Develop a business start-up plan for a viable land-based enterprise | **C1** Features of a business start-up plan  
**C2** Presenting and evaluating the business plan |  |

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**Notes:**

- **Key content areas** are the topics that must be covered in the assessment.
- **Recommended assessment approach** outlines the type of assessment that should be completed to achieve the learning aim.
Content

Learning aim A: Examine the features, resource requirements and processes of businesses operating in the land-based sector

A1 Features of land-based businesses
- Ownership and liability, to include sole trader, partnership, private and public limited company, franchises, public sector businesses, not-for-profit.
- Objectives associated with business type, e.g. supply of products or services, not-for-profit, profit making.
- Scope of business activities, to include local, national, international.
- Link between land-based and associated industries in the supply chain, e.g. production and manufacturing, leisure.
- Reasons for success and how they differ depending on ability to meet demand, use of technology, type of business, innovative products or systems.
- Importance of land-based industries to regional and local economies, including social and environmental impact, e.g. bringing employment, gross domestic product (GDP), changes in biodiversity, sustainability.

A2 Resource requirements of land-based businesses
- Physical resources, to include land, machinery, equipment, materials.
- Human resources, including skills and knowledge requirements, staff, structure.
- Financial resources, including internal (retained profit) and external sources (loans, hire purchase, grants).
- Educational resources, such as professional trade associations and trade bodies, government organisations, e.g. Department for Environment, Food and Rural Affairs (Defra), research organisations.

A3 Land-based business processes and procedures
Importance, legal aspects and management efficiency.
- Sourcing materials and services, e.g. timing, purchasing, ordering procedures, credit control, record keeping.
- Planning the production of products or services, e.g. forecasting supply and demand, methods of production (job, batch, lean, flow).
- Sales and marketing, e.g. pricing strategies, costs, internal and external communication, promotional activities (direct marketing, advertising).
- Legislative recording requirements, e.g. health and safety, Control of Substances Hazardous to Health (COSHH) Regulations 2002, food safety, plant and animal passports.
- Details and purpose of relevant registration schemes, e.g. Red Tractor Assurance, quality management schemes, land registry, Registration of Land-based Operatives (ROLO), Forest Stewardship Council (FSC).
- Monitoring business operations to improve performance, e.g. gross margin, production levels, financial efficiency, against targets, advantages, disadvantages.
Learning aim B: Carry out market research to identify a financially viable land-based enterprise

B1 Market research and analysis
Understanding the marketplace, customers and competitors.
- Target market, e.g. types of customer, age, location.
- Primary and secondary research, e.g. questionnaires, surveys, interviews.
- Analysis of the business environment, including Porter's five forces, PESTLE (political, economic, social, technological, legal, environmental) and SWOT (strengths, weaknesses, opportunities, threats).
- Competitor analysis, to include indirect and direct competitors, local, national, international, market share, reputation, pricing, customers.
- Barriers to setting up, e.g. viability, cash flow, finance, legislation, resources.

B2 Financial feasibility of a land-based enterprise
Financial feasibility study – assessment of financial aspects of starting up an enterprise.
- Amount of finance needed, including set-up costs, fixed and variable costs.
- Sources of capital, e.g. investors, own, grants, loans.
- Calculation of break-even forecast and margin of safety.
- Calculation of return on capital employed, net profit margins, current ratio.
- Preparation of financial accounts, to include:
  - income statement
  - statements of financial position
  - cash flow forecasts.

Learning aim C: Develop a business start-up plan for a viable land-based enterprise

C1 Features of a business start-up plan
Key areas that need to be included in a business plan.
- Nature of the enterprise, e.g. sales, service.
- Business aims and objectives, e.g. profit, survival, growth, long and short term.
- Legal structure and operation.
- Resource requirements.
- Promotion, including methods and costs.
- Financial forecasts, including opening and closing statement of financial position, capital to show investment needed, cash flow forecast.
- Summary of market analysis and competition.
- Measures of success, e.g. financial and non-financial key performance indicators.
- Risks and contingency plans.

C2 Presenting and evaluating the business plan
- Documentation, to include financial forecasts, summary of business, business plan.
- Presentation of the business plan to potential investors, e.g. stakeholders, bank, formal, informal, face to face, via submission of documentation.
- Evaluating the business plan, e.g. appropriate method of presentation, clearly set out, feedback from the potential investor, sufficient preparation, level of detail included, coverage of key areas, enable potential investor or stakeholder to make decisions based on the information.
## Assessment criteria

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<tr>
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<tr>
<td><strong>Learning aim A: Examine the features, resource requirements and processes of businesses operating in the land-based sector</strong></td>
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<td></td>
</tr>
<tr>
<td>A.P1 Explain the features and resource requirements of two contrasting businesses in the land-based sector.</td>
<td>A.M1 Analyse the impact of business features, resource requirements, features and processes on the operation of two contrasting businesses in the land-based sector.</td>
<td>A.D1 Evaluate the impact of key business features, resource requirements and processes on the performance of two contrasting businesses in the land-based sector.</td>
</tr>
<tr>
<td>A.P2 Explain the business processes and procedures for two contrasting businesses in the land-based sector.</td>
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</tr>
<tr>
<td><strong>Learning aim B: Carry out market research to identify a financially viable land-based enterprise</strong></td>
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</tr>
<tr>
<td>B.P3 Carry out market research to identify a land-based business enterprise.</td>
<td>B.M2 Analyse the results of own market research and financial feasibility study to develop a business start-up plan for a chosen land-based enterprise.</td>
<td>B.D2 Evaluate own market research and financial feasibility study, drawing out valid conclusions to produce a comprehensive business start-up plan for a chosen land-based enterprise.</td>
</tr>
<tr>
<td>B.P4 Carry out a financial feasibility study for a land-based enterprise.</td>
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<tr>
<td><strong>Learning aim C: Develop a business start-up plan for a viable land-based enterprise</strong></td>
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</tr>
<tr>
<td>C.P5 Produce a basic business start-up plan for a chosen land-based enterprise, based on own research.</td>
<td>C.M3 Produce a detailed business start-up plan for a chosen land-based enterprise, based on own research to present to relevant stakeholders.</td>
<td>C.D3 Evaluate own business start-up plan, justifying conclusions.</td>
</tr>
<tr>
<td>C.P6 Explain the business start-up plan to relevant stakeholders.</td>
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Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aim: A (A.P1, A.P2, A.M1, A.D1)
Learning aims: B and C (B.P3, B.P4, C.P5, C.P6, B.M2, C.M3, B.D2, C.D3)
Further information for teachers and assessors

Resource requirements

For this unit, learners must have access to:

• two business types, non-profit and profit, which will allow learners to gain information (one could be learners’ work placement)
• business planning tools or information/support such as that provided by banks etc.

Essential information for assessment decisions

Learning aim A

The two business examples used must be in the land-based sector but could be from different industries in the sector, i.e. a charity in the animal sector and Dairy Crest in the agricultural sector.

For distinction standard, learners will show depth of understanding by evaluating how resource requirements, key business features, processes and procedures impact on the performance of two businesses operating in the land-based sector, with one being a for-profit business and the other a not-for-profit business. Learners will support their evaluation with well-chosen examples from their two businesses. They will review how decisions made in the supply chain impact on business performance and show, through their evaluation, the advantages and disadvantages of the processes and procedures used in the businesses, and how these processes impact on and improve business performance. Learners will justify their conclusions by linking the impact to key features, processes and procedures, and resource requirements, rather than just explaining these in general terms.

For merit standard, learners will demonstrate their understanding of how resource requirements, key business features, processes and procedures affect the effectiveness of two businesses operating in the land-based sector, selecting some examples to support their understanding. They will review the links between different land-based businesses in the supply chain and their relationship to each other. Learners will make reasoned, analytical judgements in relation to a number of advantages and disadvantages of the different processes and procedures used in the businesses, and how these processes can improve business performance, for example the advantage of sourcing raw materials locally reduces transport costs and time to market, improving business costs and readiness of products.

For pass standard, learners will recall knowledge to explain the key business features, resource requirements, processes and procedures required to operate a for-profit and a not-for-profit business in the land-based sector. Learners will explain the importance of links between different land-based businesses in the supply chain and how these relate to each other. They will use relevant research to show the resource requirements and the importance of these in operating a business effectively, using specific examples. Learners will demonstrate an understanding of the processes and procedures used in the businesses, and how these relate to business performance, for example registration with a quality assurance scheme gives customers confidence in the product and the company they are buying from, resulting in return purchasing.
Learning aims B and C

Learners should prepare their own business plan. Presentation of the business plan can take the form of a formal presentation, an informal meeting or discussion or submission of the written documentation, as appropriate.

For distinction standard, learners will use concise and professional arguments when reviewing their own research and financial feasibility study, giving reasons for all elements. They will demonstrate clearly how their market research and financial feasibility study will underpin the development of a comprehensive business start-up plan and support this with carefully chosen examples, such as their financial forecasts to show the predicted success of the chosen business. Based on their evaluation, they will give clear and detailed reasons for their conclusions.

Learners will present their business start-up plan individually, demonstrating a high standard of technical ability, attention to detail, and use of the correct business terminology and communication style. They will evaluate this plan, taking into account feedback, their preparation, method of presentation and level of detail. They need to demonstrate their understanding by justifying any conclusions made within their evaluation and recommendations.

For merit standard, learners will make reasoned, analytical judgements about their financial feasibility study and market research and how they relate to the development of the business start-up plan, supporting this with examples. They will produce their business start-up plan based on their own research that includes the type of business, its aims and objectives, resource requirements, methods of promotion, risks and contingency plans and financial forecasts. Learners will individually present this plan in a professional way, demonstrating attention to detail, use of appropriate business terminology and preparation before the final presentation. There will be some analysis of the feedback from the potential investors or stakeholders.

For pass standard, learners will undertake some market research using primary and secondary research, supported by an analysis of the market and potential competitors in identifying a suitable business. They will also identify the potential sources of finance and costs, and prepare a cash flow forecast and income statement that relate to their business start-up, supporting these with examples. Learners will individually prepare a basic business start-up plan from their research, including the outline of the business, its aims and objectives, methods of promotion, a cash flow forecast, and profit and loss statement. They will present this plan, showing some knowledge and understanding of business terminology and answering questions from the potential investors or stakeholders.

Links to other units

This unit links to Unit 4: Work Experience in the Land-based Sectors.

Employer involvement

This unit would benefit from employer involvement in the form of:

- masterclasses from industry
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 11: Wildlife Ecology and Conservation Management

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners study the methods and skills needed to investigate habitats and to carry out wildlife habitat improvements and wildlife rehabilitation.

Unit introduction

Wildlife responds to changes in its habitat. Good animal management will be able to assess those changes, plan habitat improvements and carry them out for the benefit of the wildlife. Sometimes it may be necessary to rehabilitate wildlife. This unit will give you the practical skills you need to carry out a range of wildlife habitat and rehabilitation tasks.

You will learn how to survey and assess habitats in relation to wildlife needs, develop and follow a plan for improvements, and monitor the outcomes. You will also learn to assess wildlife for rehabilitation – for example following loss of habitat through development – and create and follow a plan to reintroduce the wildlife to a suitable habitat.

Whether you move into employment or to further study, the skills you develop in this unit will be invaluable. The study of wildlife and habitat is essential for good animal management. It is an integral part of a wide variety of careers, including conservation and environmental monitoring and planning.

Learning aims

In this unit you will:

A Understand the characteristics of ecosystems for wildlife habitat planning and rehabilitation
B Carry out field studies into wildlife populations and their habitats for the purpose of planning for wildlife management
C Undertake practical wildlife and conservation management to affect biodiversity.
### Summary of unit

<table>
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<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
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</table>
| **A** Understand the characteristics of ecosystems for wildlife habitat planning and rehabilitation | **A1** Distribution of ecosystems  
**A2** Relationships in ecosystems  
**A3** Human interactions with ecosystems | A portfolio of evidence, such as maps, diagrams, flow charts and reports from investigative fieldwork. |
| **B** Carry out field studies into wildlife populations and their habitats for the purpose of planning for wildlife management | **B1** Habitat surveys for wildlife management  
**B2** Monitoring wildlife populations  
**B3** Planning for wildlife habitat management and rehabilitation | A survey report, using survey, monitoring and other research information to develop animal- and habitat-specific plans to manage a wildlife population, including maps, task lists, cost–benefit analysis and schedules. Evidence that demonstrates management tasks for habitat change and rehabilitation, which could be a photo log, signed witness statements and/or observation record(s). |
| **C** Undertake practical wildlife and conservation management to affect biodiversity | **C1** Interpretation of habitat management and wildlife rehabilitation plans  
**C2** Carrying out practical habitat management and wildlife rehabilitation  
**C3** Monitoring the outcomes of practical habitat management and wildlife rehabilitation | |
Content

Learning aim A: Understand the characteristics of ecosystems for wildlife habitat planning and rehabilitation

A1 Distribution of ecosystems
- Geographical distribution of ecosystems:
  - scale of ecosystems, including biome, habitat, microhabitats and ecological niches
  - standard methods of mapping and classification, e.g. Phase 1 survey methodology and nomenclature.
- Factors affecting the distribution of ecosystems:
  - abiotic factors that influence the distribution of ecosystems at a range of scales, including global (e.g. atmospheric energy flows and climate zones), regional (e.g. distance from the sea and altitude), local (e.g. aspect and soil type) and micro (e.g. shade and slope)
  - biotic factors, including the modifying influence of plant, animal and human activity.
- Characteristics of major land biomes and habitats:
  - world biomes, to include the five major types: aquatic, desert, forest, grassland and tundra
  - UK habitats, to include coastal, lowland grassland and heathland, freshwater and lowland wetlands, upland, woodland
  - characteristics, to include altitude, latitude, distance from the sea, rainfall, wind speed and direction, temperature, aspect, soil type, fauna and flora.

A2 Relationships in ecosystems
- Energy flows in ecosystems:
  - the flow of energy through an ecosystem, including energy loss, e.g. through respiration and excretion
  - trophic levels, food chains and pyramids
  - natural cycles, including carbon, nitrogen, oxygen, phosphorus and water.
- Wildlife in ecosystems:
  - relationships between animals and other species (including plants), to include predator/prey, symbiosis and parasitism
  - interactions in ecosystems to provide for animal needs, e.g. food, shelter, protection, migration, reproduction and competition.

A3 Human interactions with ecosystems
- Human impacts on ecosystems:
  - impact of human activities, including positive, negative, historical, present and future, e.g. Neolithic woodland clearance, creation of the Forestry Commission, the Common Agricultural Policy
  - main threats to ecosystems at global, national and local scales, e.g. climate change, depletion of fish stocks and ash dieback.
- Protection and conservation strategies:
  - the use of planning and other environmental legislation
  - funding for habitat stewardship
  - the role of charitable and volunteer organisations
  - rehabilitation of wildlife and its impact on biodiversity, including licensing of rehabilitation
  - the range of conservation strategies, e.g. catch and release, captive breeding, maintaining genetic diversity, habitat management.
Learning aim B: Carry out field studies into wildlife populations and their habitats for the purpose of planning for wildlife management

**B1 Habitat surveys for wildlife management**
Methods and considerations required to carry out habitat surveys:
- planning a survey, choice of survey area, equipment
- sampling techniques, e.g. random, systematic, stratified
- health and safety considerations, e.g. lone working, working near water and use of personal protection equipment (PPE), e.g. in dense undergrowth
- survey techniques, e.g. quadrat, transect, kick methodologies
- recording of results, e.g. tally charts and mapping, including field use of ICT.

**B2 Monitoring wildlife populations**
Methods and considerations required to carry out the monitoring of wildlife populations:
- planning animal monitoring or population surveys, e.g. equipment, scheduling, methodology
- direct methods, including catch and release, estimation techniques, e.g. of bird populations
- legislation, including health and safety, licensing of live capture programmes
- indirect, non-invasive methods, including tracks and signs, use of tracking tunnels, moving transects, e.g. butterfly walks
- recording and reporting of data.

**B3 Planning for wildlife habitat management and rehabilitation**
Developing a rehabilitation or habitat plan for targeted wildlife species:
- using survey data to develop a species and habitat plan with measurable outcomes
- task allocation and schedules, taking into account, e.g. seasonality of operations
- tools, materials and equipment used for practical tasks, including suitable general tools (e.g. billhooks, bowsaws) and species-specific tools (e.g. nesting boxes)
- health and safety considerations, including compliance with relevant legislation
- use of monitoring programmes to evaluate outcomes, e.g. species counts, marking, clay pads
- assessing the viability of rehabilitating specific wildlife in terms of survival and recovery
- developing a species-specific rehabilitation plan to include standard release factors that influence a successful outcome
- the development of monitoring strategies that will enable the success of rehabilitation to be evaluated.

Learning aim C: Undertake practical wildlife and conservation management to affect biodiversity

**C1 Interpretation of habitat management and wildlife rehabilitation plans**
Implementing habitat and rehabilitation plans:
- translating plans into tasks
- scheduling, taking account of seasonality
- job specifications
- identification of tools, materials and equipment
- ordering materials
- risk assessments
- identification of relevant legislation, codes of practice and licensing
- identifying skill sets, e.g. suitably qualified chainsaw operators.
C2 Carrying out practical habitat management and wildlife rehabilitation

Safe completion of planned tasks required to manage project, including:

- task allocation
- time management
- correct selection, transport, use, maintenance and storage of tools, materials and equipment
- working safely, assessing risks
- compliance with relevant legislation, codes of practice and planning guidelines
- minimising environmental damage and disturbance.

C3 Monitoring the outcomes of practical habitat management and wildlife rehabilitation

Determining the impact of practical habitat management and rehabilitation:

- reporting the outcomes of practical habitat management and rehabilitation
- measuring actual outcomes against predicted outcomes, e.g. increase or decrease in target species or survivability
- use of monitoring programmes to track outcomes, e.g. use of dormouse boxes to track population change
- analysis of strengths and weaknesses
- opportunities for improvement, e.g. extending the area of habitat improvement.
### Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
<th>Merit</th>
<th>Distinction</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Learning aim A: Understand the characteristics of ecosystems for wildlife habitat planning and rehabilitation</strong></td>
<td></td>
<td>A.D1 Evaluate human impacts on wildlife ecosystems and the range of responses to mitigate or enhance those impacts.</td>
</tr>
<tr>
<td>A.P1 Explain the distribution of ecosystems.</td>
<td>A.M1 Analyse the relationships between named UK animal species and their interactions with their habitats.</td>
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<tr>
<td>A.P2 Explain different relationships within ecosystems.</td>
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<tr>
<td><strong>Learning aim B: Carry out field studies into wildlife populations and their habitats for the purpose of planning for wildlife management</strong></td>
<td></td>
<td>BC.D2 Justify a specific habitat or rehabilitation plan using survey and monitoring data.</td>
</tr>
<tr>
<td>B.P3 Perform wildlife habitat surveys and monitor wildlife populations.</td>
<td>B.M2 Analyse survey and monitoring data to produce, for a named UK animal species, a located habitat management or rehabilitation plan.</td>
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</tr>
<tr>
<td>B.P4 Prepare a clear located habitat management or rehabilitation plan for a named UK animal, using the findings of habitat and animal population surveys.</td>
<td></td>
<td>BC.D3 Evaluate the impact of the rehabilitation plan and tasks carried out on biodiversity and the wildlife habitat.</td>
</tr>
<tr>
<td><strong>Learning aim C: Undertake practical wildlife and conservation management to affect biodiversity</strong></td>
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</tr>
<tr>
<td>C.P5 Demonstrate the proficient completion of habitat management tasks in accordance with an agreed plan.</td>
<td>C.M3 Demonstrate appropriate techniques for habitat rehabilitation, adapting techniques for changing circumstances.</td>
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<tr>
<td>C.P6 Demonstrate, under supervision, wildlife rehabilitation in accordance with an agreed plan.</td>
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</table>
Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of two summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aim: A (A.P1, A.P2, A.M1, A.D1)

Learning aims: B and C (B.P3, B.P4, C.P5, C.P6, B.M2, C.M3, BC.D2, BC.D3)
Further information for teachers and assessors

Resource requirements
For this unit, learners must have access to:

- a range of habitats suitable for detailed survey work
- wildlife animal species suitable for population studies
- a licensed animal rehabilitation programme.

Essential information for assessment decisions

Learning aim A

For distinction standard, learners will show a depth of understanding by evaluating how human impacts on ecosystems can be both positive and negative. They will apply knowledge to less familiar situations and include impacts at a variety of scales and from different historical periods. Their evaluation will be based on properly referenced case studies and will include original fieldwork. Learners will be able to demonstrate the complexity of human impacts and include both intentional and unintentional outcomes. They will show through their analysis that cost–benefit factors can influence outcomes.

Learners will show that they understand that planned outcomes are often difficult to predict and that the scientific basis for decision making can be ambivalent, for example when examining badger culls.

Learners will justify their conclusions by linking impacts to the change or breakdown of specific relationships through human intervention, rather than by explaining them in general terms.

For merit standard, learners will demonstrate their understanding of specific named habitats and species. Learners will show clearly the relationships between different species, including both the nature of the relationship and the energy flow demonstrated. They will make reasoned, analytical judgements, showing that they understand how the habitat provides for the needs of the animal, and applying their knowledge to less familiar situations. For example, honeysuckle is the preferred nesting material for the dormouse and it also provides nectar.

For pass standard, learners will recall knowledge to explain basic world biomes and UK habitats. They will include the ways in which biotic and abiotic factors control the distribution of habitats, and demonstrate awareness that these factors can operate on the very smallest scales. Learners will include specific examples, referring to well-defined situations in order to demonstrate understanding. They will relate natural cycles to specific plant and animal species and to named habitat examples.

Learners will demonstrate their understanding of the different relationships in ecosystems – including energy flows, wildlife and the impact of humans – exploring well-defined situations and structuring their knowledge in order to reach suitable conclusions.

Learning aims B and C

For distinction standard, learners will be able to articulate arguments concisely and professionally in order to justify their habitat management or wildlife rehabilitation plan. They will be able to relate their plan to measurable outcomes and should describe a monitoring plan to use detailed analysis and research in order to justify recommendations made in the plan. Their rationale should be based on relevant primary data, supported with additional, referenced research.

Learners will confidently show that their plan will address specific relationships between the target species and its environment. For example, planting hazel coppice will provide mid-layer transport pathways, overhead cover from predators and a valuable food source for the dormouse.
Learners will draw on knowledge from across the learning aims to reflect on the success of their plan and the tasks they have undertaken. They will use detailed analysis to make objective judgements on both the process and product of the tasks. Learners will predict the impact their tasks will have on the wildlife environment and, specifically, the relationships between the target species and its environment. They will also show awareness of the difficulty of making definitive predictions.

Learners will demonstrate awareness that the tasks they have undertaken may have negative impacts on the target species and other relationships in the environment; for example, rehabilitation of a predator species may alter the equilibrium of the environment. Improvements identified should include better ways of working, as well as improved outcomes.

For merit standard, learners will make reasoned, analytical judgements on the outcomes of their surveys and produce a located plan for habitat improvements or rehabilitation based on their analysis. The plan should detail the tasks required, as well as identifying appropriate solutions and explaining how these tasks will impact on one or more named target animal species.

Learners will select appropriate solutions in order to react to changing circumstances during the completion of tasks, identifying these solutions from practical exploration. Where tasks need to be modified, learners will be able to modify techniques to ensure that the agreed outcomes will still be realised.

For pass standard, learners will select and competently demonstrate a range of appropriate survey techniques, targeting specific animal species and their habitats. They will carry out survey techniques correctly and safely. The surveys must be species specific, for example surveying the amount of honeysuckle used as bedding by the dormouse. Learners should be similarly competent in investigating wildlife populations, although it is unlikely that this will be carried out through licensed catch and release methods unless undertaken as part of an authorised programme. More appropriate will be the use of direct observation, for example population counts, good identification of tracks and signs, tracking tunnels and other less invasive methods. Recording of data will be comprehensive and accurate, and findings will be presented in an appropriate format, including, for example, graphs, tables and maps.

Learners will select and demonstrate competent practical skills for both habitat improvement and wildlife rehabilitation. They will show that they can work safely and efficiently, and with due regard for other people, animal welfare and the environment. The correct and safe selection, transport and use of tools, materials and equipment is essential.

For rehabilitation, learners will act under supervision to ensure good animal welfare. For all of the practical tasks, learners will be expected to show that they can minimise environmental impacts.

Links to other units

This unit links to Unit 4: Work Experience in the Land-based Sectors.

Employer involvement

This unit would benefit from employer involvement in the form of:

- masterclasses
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- opportunities for observation during work experience
- support from local land-based organisation staff as mentors.
Unit 12: Controlling Countryside Pests and Predators

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners develop the skills needed to control common countryside pests and predators using non-lethal and lethal methods.

Unit introduction

There are a number of animal pests and predators that cause problems in the countryside. They can harm other wildlife, farm animals and, sometimes, people. They can also cause economic damage by destroying crops and trees.

In this unit, you will learn how to identify pests and predators and conduct surveys of their habitats. You will learn how to use your habitat knowledge to select measures to control these pests and predators and use these methods in a practical setting. You will learn how to combine control measures to create an integrated management strategy that will ensure pest and predator control is carried out efficiently, legally and with the minimum impact to the environment and other species.

This unit will benefit those entering the pest control industry as well as being useful to those entering the land-based sectors. It is an essential part of managing the countryside and it will help you to progress to employment, where you may be in a role with responsibility for pest control. It will also give you an excellent introduction to controlling common pests and predators in the UK if you wish to progress to a higher-education course such as countryside management.

Learning aims

In this unit you will:

A Understand UK pest and predator ecology for the purpose of their control and the control measures used for countryside management

B Undertake surveys of UK pests and predators to develop integrated management strategies for their control

C Implement integrated management strategies to control UK countryside pests and predators.
### Summary of unit

<table>
<thead>
<tr>
<th>Learning aim</th>
<th>Key content areas</th>
<th>Recommended assessment approach</th>
</tr>
</thead>
</table>
| **A** Understand UK pest and predator ecology for the purpose of their control and the control measures used for countryside management | **A1** Ecology of countryside pests and predators  
**A2** Impact of pests and predators  
**A3** Methods of controlling countryside pests and predators | A report on:  
- UK pests and predators  
- methods of controlling them  
- pest and predator ecology. |
| **B** Undertake surveys of UK pests and predators to develop integrated management strategies for their control | **B1** Planning surveys of UK pests and predators  
**B2** Carrying out surveys of UK pests and predators  
**B3** Developing integrated pest and predator management strategies | Surveys of control areas for pest and predator activity and significant habitat factors or features that support the target species.  
Production of integrated management strategies to control named species.  
Portfolio of evidence of practical pest and predator control, e.g. logbook, observation records, annotated maps. |
| **C** Implement integrated management strategies to control UK countryside pests and predators | **C1** Preparing to implement an integrated pest and predator management strategy  
**C2** Implementing pest and predator control measures  
**C3** Review integrated management strategy | |
Content

Learning aim A: Understand UK pest and predator ecology for the purpose of their control and the control measures used for countryside management

A1 Ecology of countryside pests and predators

Behaviour and characteristics of countryside pests and predators in their habitats.

- Vertebrate and invertebrate pest and predator ecology, including:
  - behavioural characteristics, e.g. caching of food by foxes and squirrels, range and distribution, behaviour on discovery
  - breeding, mortality and life expectancy, to include breeding season, number of litters, offspring survival rates
  - social structure, e.g. solitary, communal, rearing of offspring
  - diet and feeding, to include main components of diet, variety of diet, pattern of feeding
  - seasonal variation in behaviour, food supply, population.

- Relationships between pest and predator species and their habitats, including:
  - predator/prey relationships between target species and other fauna
  - food webs and food chains
  - habitat characteristics that affect pest and predator species, e.g. availability of nesting material, competition for resources with other species
  - seasonal variation in habitat cycles that have an impact on pest and predator activity, e.g. plant growth and cover, diurnal changes
  - identification of significant habitat factors that affect pest/predator populations, e.g. availability of ground cover for protection, availability of suitable nesting sites.

Common UK pest and predator insects, crustacea, birds and mammals and their impact on countryside management.

- Mammals:
  - pests, e.g. rabbits, moles, deer, rats, mice, grey squirrels
  - predators, e.g. foxes, mink.

- Birds:
  - pests, e.g. pigeons, geese
  - predators, e.g. crows, gulls, cormorants.

- Insects, e.g. wasps, bees, hornets.

- Crustacea, e.g. mitten crab, signal crayfish.

- Common non-target or protected species with special conservation status:
  - controlling protected species, e.g. badgers
  - protected non-target species, e.g. water vole, dormouse, red squirrel, raptors, white-clawed crayfish.

- Evidence of pest and predator presence, including:
  - sightings, hair, fur or feather remains, scent, calls
  - tracks or footprints for direction and speed of travel, use of runs
  - feeding signs, e.g. crop and plant debris or damage, gnawing patterns on nuts, ring barking
  - pellets and droppings
  - remains of prey, e.g. bones, scales, egg fragments
  - homes and hiding or resting places.
A2 Impact of pests and predators

Impacts associated with countryside pests and predators:
- economic, e.g. crop damage and contamination, timber destruction, livestock loss
- wildlife and habitat loss, e.g. nest destruction, overgrazing, loss of biodiversity
- health, e.g. bites and stings, leptospirosis (Weil’s disease), allergic reactions, aggressive behaviour to members of the public
- amenity loss, e.g. fouling by geese of grass/sports pitches, molehills in ornamental lawns
- awareness of positive impacts, e.g. use of predators as control measures.

A3 Methods of controlling countryside pests and predators

Common non-lethal and lethal methods of controlling countryside pests and predators, effectiveness, use and safety considerations.
- Lethal methods of countryside pest and predator control, including:
  - shooting, including the use of shotgun, rifle and air rifle
  - traps and snares, including live and spring traps, glue boards, Larsen traps
  - long nets, purse nets
  - gassing and poisoning
  - use of animals, e.g. dogs, ferrets, birds of prey.
- Non-lethal methods of countryside pest and predator control, including:
  - fencing and guards for plant protection
  - electric mesh fencing for chickens or other domestic fowl
  - acoustic scarers, including whistling tape, gas cannon
  - visual scarers, including flutter tape, balloons, kites, lasers
  - chemical repellents and treatments, e.g. ‘egg oiling’
  - habitat management
  - use of animals to deter, e.g. hazing with dogs, raptor patrols
  - removal of pests or predators, e.g. honey bee swarms.
- Legislation, guidance and codes of practice for controlling countryside pests and predators, including:
  - general protected status for all animals
  - special conservation status for target and non-target species
  - licensing of control methods and integrated management strategies
  - animal welfare, including humane despatch
  - codes of practice from professional organisations
  - legislation regarding health and safety, including risk assessments and use of personal protective equipment (PPE)
  - licensing and use of hazardous substances
  - firearms legislation and licensing.
- Advantages and disadvantages of common methods, to include:
  - skill level required, e.g. setting a mousetrap compared to a Venn trap
  - impact on non-target species, e.g. setting a cage trap compared to setting a spring trap
  - ease of use, e.g. use of poison for rats instead of traps requiring monitoring
  - safety considerations when using poisons, firearms, gas, lethal traps
  - effectiveness, including selecting correct methods, correct species, correct timings, correct geographical location.
Learning aim B: Undertake surveys of UK pests and predators to develop integrated management strategies for their control

B1 Planning surveys of UK pests and predators
- Selection of survey locations, to include:
  - geographical location of survey areas – origin of pests or predators, e.g. from outside the impact area (Canada geese, foxes), relationship between origin and impact areas, methods to locate where pests or predators originate from (trails, tracks, signs, sightings)
  - timing of surveys to account for seasonal and diurnal variations in activity
  - ensuring legal access to survey locations, including letters of permission
  - ensuring surveys comply with legislative and licensing requirements.
- Selection of survey equipment, e.g. insect collecting nets; sample bags for collecting physical evidence; binoculars; quadrats; tape measures; keys and guides for identification of trees; compass to measure the alignment of tracks or flight paths; sketchbook, e.g. to produce drawings of warren systems, tree bark damage; letters or permissions to access land; licences for survey activities, if appropriate.
- Selection of recording methods, to include:
  - photographs
  - sketches
  - audio (for calls)
  - tally charts, e.g. to record sightings, frequency observations
  - maps for annotations of pest and predator activity.
- Risk assessments and PPE.

B2 Carrying out surveys of UK pests and predators
- Pest and predator surveys:
  - mapping indicators of pest, predator and non-target species activity
  - estimating pest and predator populations from tracks, signs and sightings
  - identifying habitat factors that support pest and predator populations
  - assessing the impact of pest and predator activity, e.g. impacts on amenity value, economic, environmental.
- Selection of survey findings presentation methods, to include:
  - annotated maps and diagrams
  - labelled photographs and sketches
  - statistical presentation methods, e.g. pie charts, bar charts recording species or population counts.

B3 Developing integrated pest and predator management strategies
Combining pest and predator ecology with a variety of effective control measures to create integrated management strategies that target one or more UK pests and predators.
- Links between pest and predator ecology and control methods, e.g. flightless period to control Canada geese, baiting traps with preferred food naturally available in the habitat, identifying rabbit runs to place traps, nets, placing visual scarers on flight paths.
- Selection of appropriate control measures taking account of:
  - seasonal/diurnal variations in target species behaviour
  - appropriate licensing and regulatory frameworks
  - available resources, e.g. allocating time to check traps, skill set of people involved
  - ecological research, published sources, including technical information notes, generic integrated management strategies.
- Combination of control measures to create integrated management strategies.
- Selection/creation/updating of risk assessments.
• Integrating management strategies for pest and predator control, to include:
  o target species
  o geographical extent of control area
  o analysis of pest/predator impacts in control area
  o types of control measures, their location, timing and checking
  o relationship between selected control measures and ecology of target species
  o minimising the environmental impact of control measures
  o minimising the impact on non-target species
  o legislative requirements, e.g. control licences
  o expected outcomes of control measures
  o monitoring of outcomes, e.g. to determine the need for additional control measures, increased geographical coverage, longer timescale.

• Ethical considerations, e.g. use of Larsen traps and other lethal methods of control, badger culling, fox hunting, eradication of grey squirrels to preserve red squirrel populations.

Learning aim C: Implement integrated management strategies to control UK countryside pests and predators

C1 Preparing to implement an integrated pest and predator management strategy
Considerations for the practical application of integrated management strategies for UK pest and predator control.
• Availability of people who are suitably qualified, licensed or experienced to use, if appropriate, firearms and gas or poisons, and to set traps, nets.
• Equipment, e.g. firearms and ammunition, including appropriate storage in transit, checking traps, scarers, fencing for functional suitability, tuning traps and snares, tools, equipment and materials for habitat management, installation of control measures, warning signs, if appropriate.
• Appropriate documentation, including:
  o on-demand documents, e.g. firearms/shotgun certificates, class or general control licences, permissions to shoot, permissions to access land
  o record keeping, e.g. location of control measures.
• Health and safety, including:
  o provision of appropriate PPE
  o risk assessments, including lone working if appropriate
  o arrangements for appropriate waste/carcass disposal.
• Arrangements for daily monitoring of traps and snares in accordance with legislation and codes of practice.

C2 Implementing pest and predator control measures
• Installation of control measures, including:
  o correct selection of control sites
  o setting traps and snares or use of other appropriate lethal control measures, e.g. shooting, dusting of wasp nests
  o minimising environmental impact
  o installation, repair and maintenance of non-lethal deterrent measures.
• Monitoring of lethal control measures, to include:
  o despatch and disposal of target/non-target species
  o release of native non-target species
  o resetting traps and snares, ensuring all are accounted for.
• Monitoring of non-lethal control measures, to include:
  o effectiveness of fencing, wire, netting
  o effectiveness of habitat management
  o use of acoustic and visual scarers.
• Removal of control measures in line with legislation, to include traps, snares, cages.
• Monitoring of outcomes to determine effectiveness of control measures, e.g. comparing visual with acoustic scarers.
• Safe working practice, e.g. while shooting, using poisons, near open water.
• Compliance with current, relevant legislation.

C3 Review integrated management strategy
• Review of integrated management strategy, to include:
  o reliability and validity of surveys – whether pests or predators were located
  o how the collected data was used and its reliability – whether data collection methods could be improved or different data collected
  o effectiveness of control measures, e.g. cost effectiveness of control measures against impacts of pest/predator activity
  o environmental impacts of control measures
  o impacts on non-target species
  o compliance with legislative framework – whether the strategy was fully compliant
  o how the review process can inform future strategies – lessons learned, identified improvements, how strategies could be adapted to prevent situations arising in the future.
• Methods of reviewing, to include report, presentation, peer review, expert review.
## Assessment criteria

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<tr>
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<tr>
<td><strong>Learning aim A: Understand UK pest and predator ecology for the purpose of their control and the control measures used for countryside management</strong></td>
<td></td>
<td>A.D1 Evaluate the appropriateness of the measures available to control UK pests and predators in relation to their ecology and impact.</td>
</tr>
<tr>
<td>A.P1 Explain the ecology and impact of common UK pests and predators.</td>
<td>A.M1 Analyse the relationship between control measures used and the ecology and impact of specified UK pests and predators.</td>
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<tr>
<td>A.P2 Explain common UK pest and predator control measures.</td>
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<tr>
<td><strong>Learning aim B: Undertake surveys of UK pests and predators to develop integrated management strategies for their control</strong></td>
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<tr>
<td>B.P3 Carry out simple surveys of UK pests and predators.</td>
<td>B.M2 Plan complex integrated management strategies for the control of pest or predator species based on own surveys and research.</td>
<td>B.D2 Justify decisions made for own complex integrated management strategies based on an analysis of own surveys and research.</td>
</tr>
<tr>
<td>B.P4 Plan simple integrated management strategies for pest or predator species based on own surveys and research.</td>
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<tr>
<td><strong>Learning aim C: Implement integrated management strategies to control UK countryside pests and predators</strong></td>
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<tr>
<td>C.P5 Carry out own simple integrated management strategies to control pest or predator species.</td>
<td>C.M3 Demonstrate a complex integrated management strategy to control a pest or predator species.</td>
<td>C.D3 Evaluate the effectiveness of implementation of own complex integrated management strategy to control a pest or predator species.</td>
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<tr>
<td>C.P6 Explain the effectiveness of own integrated management strategy.</td>
<td>C.M4 Analyse the effectiveness of own integrated management strategy in controlling a pest or predator species.</td>
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Learning aims: B and C (B.P3, B.P4, C.P5, C.P6, B.M2, C.M3, C.M4, B.D2, C.D3)
Further information for teachers and assessors

Resource requirements
For this unit, learners must have access to:
- habitats with pest and predator control requirements
- a range of commonly-used lethal and non-lethal control measures.

Essential information for assessment decisions

Learning aim A

For distinction standard, learners will demonstrate depth of understanding by evaluating the ecology, habitats and impacts of common UK invertebrate and vertebrate pests and predators. They will demonstrate the complexity of specific impacts of pest and predator activity, including economic, amenity, health and safety, environmental and biodiversity. Learners will provide well-selected evidence to show how the habitat meets the ecological needs of the pest or predator, and that complex variations in the habitat may cause increased impacts.

Learners will thoroughly review the control measures used, fully understanding their relationship with the ecology and habitat of the target species, and taking account of seasonal and diurnal variations in habitat and pest and predator behaviour. Through their evaluation, they will demonstrate that they fully understand the advantages and disadvantages of different control measures, and how to minimise the impact of control measures on the environment in general and named non-target species in particular. Learners will relate specific legislation, codes of practice and guidance to target and non-target species, understanding the need for legislation.

For merit standard, learners will show their understanding of the ecology, habitats and impacts of common UK invertebrate and vertebrate pests and predators by demonstrating reasoned, analytical judgements. Learners will show clearly the range of impacts pests and predators have on human activity, the environment and biodiversity. They will make reasoned, analytical judgements, showing they understand the complexity of the relationships between pests and predators and the habitats in which they are found.

Learners will demonstrate that they understand the control measures for named species and they will justify the use of different control measures, giving the advantages and disadvantages. They will relate specific control measures to the ecology and habitat of the species. Learners will demonstrate that they are aware of the legislation, codes of practice and guidance that relate to pest and predator control, and how they relate to specific target and non-target species.

For pass standard, learners will show that they can recall knowledge and understanding of the ecology of common UK invertebrate and vertebrate pests and predators, the habitats in which they are found, and the impacts they have on human activity and other wildlife. They will demonstrate that they can identify specific pests and predators from their tracks, signs and sightings.

Learners will include specific examples of common, legal control measures, both lethal and non-lethal, to demonstrate understanding. They will explain appropriate control measures for named species of pests and predators, including their advantages and disadvantages. Learners will know which legislation, codes of practice and guidance relates to pest and predator control.
Learning aims B and C

For distinction standard, learners will conduct field surveys for pest and predator activity and their habitats. They will use the findings of their own field surveys and other research to develop a complex integrated management strategy that demonstrates the depth and breadth of their evaluation of the surveyed habitats, the target species and the available control measures.

For a complex integrated management strategy, learners will be able to give reasons for their choice of control measures and how they expect them to affect the target species while limiting impacts on the environment, including non-target species. They will relate, in full, their surveys, their integrated management strategy and the ecology or habitat of the target species.

Learners will demonstrate the implementation of integrated management strategies for a named UK mammalian and a named UK avian pest or predator, with at least one integrated management strategy being complex and to industry standard.

They will review their own integrated management strategy, showing their understanding of the reasons for its effectiveness, suggesting improvements and further intervention, where appropriate, and how they might apply their learning to different pest and predator situations.

For merit standard, learners will conduct field surveys for pest and predator activity and their habitats. They will analyse their surveys to allow a full investigation of the relationships between target species, non-target species and habitats.

They will use the findings of their own field surveys and other research to develop a complex integrated management strategy based on their reasoned analysis of the surveyed habitats, the target species and the available control measures. This strategy must contain a wide range of control measures related to the ecology of the target species. The control measures would take account of seasonal variations and require specialist expertise or licensing.

For a complex integrated management strategy, they will be able to give reasons for their choice of control measures and how they expect them to affect the target species while limiting impacts on the environment, including non-target species. They will show links between their surveys, the integrated management strategy and the ecology or habitat of the target species.

Learners will demonstrate the implementation of complex integrated management strategies for a named UK mammalian and a named avian pest or predator, with at least one integrated management strategy being complex. They will prepare and execute the strategy to industry standard with respect to choice of control measures, their placement, appropriate monitoring and removal, humane despatch (where appropriate), steps taken to minimise the impact on non-target species and the environment, safe working practice and compliance with relevant legislation.

They will review their own complex integrated management strategy, showing their understanding of the reasons for its effectiveness. They will relate their review to the industry standards followed.

For pass standard, learners will conduct field surveys for tracks, signs and sightings of common UK pests and predators, the habitats in which they are found, and including some evidence of the activities of non-target species. Their analysis of the survey will focus on the target species, with limited investigation of the relationships between target species, non-target species and habitats.

They will use the findings of their own field surveys and other research to develop simple integrated management strategies for a named UK mammalian and a named UK avian pest or predator. These strategies will contain a limited range of control measures where specialist expertise or licensing may not be required.

For a simple integrated management strategy, they will be able to give reasons for their choice of control measures and their intended effect on the target species, identifying the measures they will take to limit impacts on the environment, including non-target species.

Learners will demonstrate the implementation of two simple integrated management strategies, one for a named UK mammalian and one for a named UK avian pest or predator. They will prepare and execute simple strategies for these using safe working practices and complying with current, relevant legislation.
They will review one of their own integrated management strategies for its effectiveness. This will include the surveys undertaken; the selection, placement, monitoring and appropriate removal of control measures; the impact on the target and non-target species; and an analysis of the cost of the strategy against the measurable benefits.

Links to other units

This unit links to:
- Unit 6: Managing Environmental Habitats
- Unit 7: Woodland Management

Employer involvement

This unit would benefit from employer involvement in the form of:
- masterclasses
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
Unit 13: Gamekeeping

Level: 3
Unit type: Internal
Guided learning hours: 60

Unit in brief

Learners develop the skills needed to carry out the management of effective gamekeeping and sustainable environments as part of gamekeeping in the UK countryside.

Unit introduction

There are thousands of full-time gamekeepers employed in the UK. Today, there are many people who spend their leisure time and money rearing game and maintaining habitats on their own small shoots. While gamekeepers are still responsible for the husbandry of both reared and wild game for sporting shooting, they also use their skills as land managers. Their skills play an important part in shaping the countryside and in achieving sustainability.

In this unit, you will learn about the private and public stakeholders and the influences that form the framework in which gamekeepers work. You will investigate and develop skills in how to rear stock game birds from eggs, understanding the process from stock bird management through to egg selection, incubation and hatching. You will develop an appreciation for managing wildlife species and habitats as part of the role of a gamekeeper.

This unit will help you progress into working roles such as gamekeeper or countryside ranger, having developed a broad range of relevant knowledge, understanding and skills in game and environmental management. It can also help you move into further or higher education in conservation or wildlife management.

Learning aims

In this unit you will:

A Investigate key external influences on gamekeeping
B Carry out game bird production as part of effective gamekeeping management
C Carry out sustainable habitat management for successful gamekeeping.
## Summary of unit

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<td>Carry out game bird production as part of effective gamekeeping management</td>
<td>B1 Planning for breeding</td>
<td>An evaluation of a plan for a game bird breeding and rearing project, supported by evidence of carrying out the incubation and hatchery of game birds.</td>
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<td>B2 Incubation and hatchery operations</td>
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<td>C1 Types of game and wild species</td>
<td>A report evaluating the role of the gamekeeper in managing local habitats sustainably and the interaction of species.</td>
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Content

Learning aim A: Investigate key external influences on gamekeeping

A1 Key aspects of field sports
- Field sport debates, including the importance of balanced debates and public perceptions.
- Issues that underpin current arguments for and against field sports, including pest control, tradition, employment opportunities, contribution to rural economy, cruelty to animals, conflicts and challenges, outdated pastime, elitism, alternative methods of pest control.
- Organisations for and against field sports, including aims of the organisation, mode of operation, approach to giving balanced views of both sides of argument.

A2 Legislation
- Current statutory legislation at time of teaching.
- Impact and practical application of legislation to game management.
- Countryside protection and sustainability issues.
- Access and trespass.
- Wildlife protection.
- Codes of practice relating to effective and sustainable management of game in the UK.

A3 Stakeholders associated with gamekeeping and field sports
- Types of major stakeholders, including private stakeholders, public organisations, governmental bodies and campaign groups.
- Key governmental and industry organisations, including Department for Environment, Food and Rural Affairs (Defra) and local authorities, British Association for Shooting and Conservation (BASC).
- Potential impact and roles of stakeholders on the game industry, e.g. influencing public perception, influencing legislative changes, duties of public organisations, population control and its role in conservation of species, political, revenue generation, research, advisory.

Learning aim B: Carry out game bird production as part of effective gamekeeping management

B1 Planning for breeding
- Sources of breeding stock and eggs.
- Buying in eggs.
- Catching-up stock birds.
- Operation of a closed flock.
- Identification and sexing of breeding stock.
- Relevant current legislation at time of teaching.
- Hygiene practices.
- Link to bird breeding seasons, including pheasant and partridge.
- Breeding behaviour.
- Advantages and disadvantages of each system, e.g. costs, survival rate, efficiency savings, staffing requirements.

B2 Incubation and hatchery operations
- Preparing the incubator.
- Importance of hygiene at all stages of game bird production, including cleaning and disinfection.
- Conditions for successful incubation for both embryonic development and hatching, including time, temperature, humidity, turning, hatch-to-egg ratio.
• Methods for monitoring and maintaining the environment, including candling and weighing eggs, digital thermometers, data loggers, dry bulb.
• Operation of incubators.
• Methods used to confirm fertility and monitor embryo development, including candling and egg weighing.
• Chick handling techniques.
• Appropriate recording systems, e.g. whiteboards, databases and paper-based documents.

B3 Managing health and welfare in game birds
• External symptoms, including high mortality rate, ruffled or fluffed feathers, droopy head, abnormal faeces and ‘snicking’ (mycoplasma).
• Normal and abnormal behaviours, e.g. lethargy, gaping, change in feed and water consumption, hysteria.
• Signs of stress and disorder, including reduced appetite, reduced egg production.
• Veterinary treatments and management of injury, diseases and disorders.

B4 Management of stock birds
• General husbandry requirements of stock birds, including feeding, water, cleaning and suitable housing, specialist requirements and the five animal needs.
• Welfare requirements, including stocking density, prevention of fighting, reduction of treading damage and suitable sex ratios.
• Factors affecting fertility and hatchability of eggs.
• Specifications for different types of laying pen, including large communal pens and pair boxes.
• Egg grading and storage.
• Specifications for grading eggs suitable for incubation, including size, cleanliness, damage, colour.
• Egg cleaning and sanitising procedures, including washing, disinfecting, fogging.
• Suitable storage conditions to maintain viability of eggs, including temperature, humidity and time.
• Rearing game birds from day-old to poultry stage to maintain high survival rate.
• Appropriate recording systems, including mortality records, medications record and breeding records.
• Impact of potential economic losses that could arise from poor management of stock birds, e.g. fewer birds available for shoots.

B5 Factors affecting health and welfare of game birds
• Common diseases, including coccidiosis, rotavirus, starve-out, mycoplasma protozoa and pasteurella, and the management of such diseases.
• Effects of stress on day-old to poultry stage.
• Behavioural disorders, including feather pecking.
• Eco/end parasites, including intestinal worms, lice and mites.
• Nutritional requirements at different stages of growth.
• Biosecurity procedures, including planning, methods of disease transmission and control procedures:
  o exclusion of wild birds
  o change of ground
  o isolation of sick birds
  o culling of sick birds
  o role of the veterinary surgeon and specialist veterinary surgeon in managing disease, post-mortem, anti-mortem.
• Pre-diseased.
Learning aim C: Carry out sustainable habitat management for successful gamekeeping

C1 Types of game and wild species
- Game bird species, including pheasant, grouse, partridge, quail, pigeon, woodcock, moorhen, snipe.
- Wild fowl, ducks and geese.
- Other (non-bird) game species, including hare, grey squirrel.
- Breeding and shooting seasons across the UK:
  - open, e.g. game bird and wild fowl dates
  - closed seasons
  - ground, e.g. hare and rabbit dates.

C2 Impact of native and non-native species on gamekeeping
- Impact of other native and non-native species, including control of pest and predator species, grouse moor management, benefits of cover crops for farmland birds.
- Introduction of non-native species, including American mink, Signal crayfish, Asian hornet, grey squirrel, knotweed.
- Reintroduction of once native species, including wild boar, beaver, wolf, lynx.
- Measuring impact of species and environmental conditions on game.
- Biodiversity action plan for different species and the importance for the gamekeeper.
- Industry guidelines for sustainable releasing of species.

C3 Sustainable gamekeeping
- The gamekeeper’s role in different environments, e.g. upland or lowland.
- Activities of the gamekeeper in managing species to preserve the environment.
- Sustainable gamekeeping practices in different environments relevant to the gamekeeper, including waste disposal and dealing with hazardous substances.
- Promoting sustainability of shoot days.
## Assessment criteria

<table>
<thead>
<tr>
<th>Pass</th>
<th>Merit</th>
<th>Distinction</th>
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<tbody>
<tr>
<td><strong>Learning aim A: Investigate key external influences on gamekeeping</strong>&lt;br&gt;<strong>A.P1</strong> Explain the role of field sports in countryside management.&lt;br&gt;<strong>A.P2</strong> Explain the potential impact of different stakeholders and relevant legislation in countryside management.</td>
<td><strong>A.M1</strong> Analyse the potential impact of field sports, different stakeholders and relevant legislation in countryside management.</td>
<td><strong>A.D1</strong> Evaluate the importance of the impact of field sports, different stakeholders and relevant legislation in countryside management.</td>
</tr>
<tr>
<td><strong>Learning aim B: Carry out game bird production as part of effective gamekeeping management</strong>&lt;br&gt;<strong>B.P3</strong> Produce a plan for game bird breeding and rearing, maintaining health and welfare.&lt;br&gt;<strong>B.P4</strong> Competently demonstrate incubation and hatchery of game birds.</td>
<td><strong>B.M2</strong> Justify the decisions taken during the planning of game bird breeding and management.&lt;br&gt;<strong>B.M3</strong> Proficiently demonstrate incubation and hatchery of game birds.</td>
<td><strong>B.D2</strong> Evaluate the effectiveness of the process of breeding management with game birds, making recommendations for improvement.</td>
</tr>
<tr>
<td><strong>Learning aim C: Carry out sustainable habitat management for successful gamekeeping</strong>&lt;br&gt;<strong>C.P5</strong> Perform a survey of key types of game species and native and non-native species to measure environmental impact.&lt;br&gt;<strong>C.P6</strong> Carry out sustainable habitat activities as part of the role of the gamekeeper.</td>
<td><strong>C.M4</strong> Carry out efficiently a survey of the interaction of game, native and non-native species and the impact on sustainable gamekeeping.</td>
<td><strong>C.D3</strong> Use survey information to evaluate the interaction of game, native and non-native species and the impact on sustainable gamekeeping.</td>
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</table>
Essential information for assignments

The recommended structure of assessment is shown in the unit summary along with suitable forms of evidence. Section 6 gives information on setting assignments and there is further information on our website.

There is a maximum number of three summative assignments for this unit. The relationship of the learning aims and criteria is:

Learning aim: A (A.P1, A.P2, A.M1, A.D1)
Learning aim: B (B.P3, B.P4, B.M2, B.M3, B.D2)
Learning aim: C (C.P5, C.P6, C.M4, C.D3)
Further information for teachers and assessors

Resource requirements
For this unit, learners must have access to:
- incubation, hatchery and rearing facilities
- game birds for breeding
- game bird eggs for incubation, hatching and rearing of young
- suitable local habitats
- scientific measuring equipment, thermometers and hygrometers.

Essential information for assessment decisions

Learning aim A
For distinction standard, learners will thoroughly examine the variety of organisations and legislative requirements involved in gamekeeping as part of countryside management. Learners will show a robust, comprehensive understanding of the variety, aims, roles and importance of the impact that stakeholders have on the gamekeeping industry. Learners will evaluate application and impact when reviewing specific organisations, demonstrating accurate understanding of the legislative requirements that gamekeepers have to apply in daily management practices. Learners will provide well-reasoned arguments, including advantages and disadvantages of field sports, synthesising in-depth knowledge and understanding of organisations and the legal implications of field sports in the UK.

For merit standard, learners will provide a clear analysis of the variety of organisations and legislative requirements involved in gamekeeping as part of countryside management. Learners will show a clear, detailed understanding of the variety, aims and roles, analysing any potential impact that stakeholders have on the gamekeeping industry. Learners will analyse the impact when reviewing specific organisations, demonstrating detailed knowledge and understanding of the legislative requirements that gamekeepers have to apply in daily management practices. Learners will present a balanced analysis that includes advantages and disadvantages of field sports, drawing on mostly relevant knowledge and understanding of organisations and the legal implications of field sports in the UK.

For pass standard, learners will provide a realistic explanation of the variety of organisations and legislative requirements involved in gamekeeping as part of countryside management. Learners will identify and explain the potential impact when reviewing specific organisations, demonstrating some relevant knowledge and understanding of the legislative requirements that gamekeepers have to apply in daily management practices. Learners will identify both positive and negative aspects of field sports, although their explanations might be unbalanced or limited in parts. Learners will show evidence of drawing on some relevant knowledge and understanding of organisations and the legal implications of field sports in the UK.

Learning aim B
For distinction standard, learners will provide a highly effective plan for game bird breeding and rearing, maintaining health and welfare. Learners will competently and proficiently demonstrate incubation and hatchery of game birds as part of effective game management. Learners will independently justify the logical decisions taken during the planning of game bird breeding and management with efficient, accurate identification of problems and solutions in managing stock birds. Learners will thoroughly evaluate the effectiveness of the process of breeding management, which includes evaluation of initial planning, comprehensive plans and practical breeding projects with game birds, making recommendations for improvement at all stages of the process. Learners will demonstrate an entirely competent level of knowledge, understanding and skills development in incubation and hatchery operations, how to manage animal welfare and hygiene, and how to assess the factors that affect the health and welfare of game birds.
For merit standard, learners will produce a clear, efficient plan for game bird breeding and rearing, maintaining health and welfare, and competently and proficiently demonstrating incubation and hatchery of game birds as part of effective game management. Learners will justify the decisions taken during the planning of game bird breeding and management with clear, correct identification of problems and solutions in managing stock birds. Learners will demonstrate a competent level of knowledge, understanding and skills development in incubation and hatchery operations, how to manage animal welfare and hygiene, and how to assess the factors that affect the health and welfare of game birds.

For pass standard, learners will produce a realistic, appropriate plan for game bird breeding and rearing, maintaining health and welfare, and competently demonstrating the planning and process of incubation and hatchery of game birds as part of effective game management. Learners will demonstrate a competent level of knowledge, understanding and skills development in incubation and hatchery operations, how to manage animal welfare and hygiene, and how to assess the factors that affect the health and welfare of game birds. There will be no critical omissions in learners’ plans or in the knowledge and skills demonstrated in relation to incubation and hatchery operations. However, in some aspects, learners’ application of their knowledge and skills might be limited in scope.

Learning aim C

For distinction standard, learners will independently and efficiently carry out activities as part of sustainable gamekeeping, relevant to specific environments both upland and lowland, providing evidence of tasks completed to manage game and the environment sustainably. Learners will give comprehensive, convincing evaluations of the impact that different types of native and non-native species have, and the effectiveness of the management of wildlife and game in designated areas. Learners will show detailed consideration of both positive and negative aspects. Learners will demonstrate thorough knowledge and competent practical skills in performing a survey of native and non-native species in a local habitat as part of the gamekeeper’s role, explaining and measuring the key types of game species and their impact on habitats. Relevant concepts and practices of sustainability to manage and maintain the countryside will be discussed with breadth and depth, and linked specifically to effective gamekeeping practice. Learners will provide and justify multiple robust solutions at all times. Learners will use relevant and accurate terminology throughout their evidence to support a considered, comprehensive response.

For merit standard, learners will efficiently carry out activities as part of sustainable gamekeeping, relevant to specific environments both upland and lowland, providing evidence of tasks completed to manage game and the environment sustainably. Learners will clearly justify their consideration of the impact that different types of native and non-native species have on habitats, and the effectiveness of management of wildlife and game in designated areas. Learners will analyse the issues in a way that is balanced and mostly relevant, with some justification of both positive and negative aspects. Learners will demonstrate knowledge and competent practical skills in performing a survey of native and non-native species in a local habitat, explaining the key types of game species and their impact on habitats. Relevant concepts and practices of sustainability to manage and maintain the countryside will be discussed with breadth of understanding that is linked appropriately to effective gamekeeping practice. Learners will produce efficient solutions at all times. Learners will use appropriate technical language in their evidence, but this may be inconsistent.

For pass standard, learners will explore the wider role and impact of sustainable practices on gamekeeping, showing realistic explanations and some evidence of relevant reasoning. Learners will consider the impact that different types of native and non-native species have on habitats, and the effectiveness of management of wildlife and game in designated areas. Learners will explain both positive and negative aspects, although their explanations might be limited or unbalanced in parts. Learners will demonstrate knowledge and competent practical skills in performing a survey of native and non-native species as part of a gamekeeper’s role in a local habitat, explaining the key types of game species and their impact on habitats. Concepts and practices of sustainability to manage and maintain the countryside will be discussed with some relevance to effective gamekeeping, and will be limited in breadth and depth, using some technical language.
There will be no critical omissions in the knowledge and skills demonstrated in relation to the survey. However, in some aspects, learners’ application of their knowledge and skills might be unbalanced or limited in scope.

**Links to other units**

This unit links to:
- Unit 1: Professional Working Responsibilities
- Unit 11: Wildlife Ecology and Conservation Management
- Unit 12: Controlling Countryside Pests and Predators.

**Employer involvement**

This unit would benefit from employer involvement in the form of:
- technical workshops involving staff from local land-based organisations
- contribution of ideas to unit assignment/project materials
- observation during work experience
- support from local land-based organisation staff as mentors.
4 Planning your programme

How do I choose the right BTEC National qualification for my learners?

BTEC Nationals come in a range of sizes, each with a specific purpose. You will need to assess learners very carefully to ensure that they start on the right size of qualification to fit into their 16–19 study programme, and that they take the right pathways or optional units that allow them to progress to the next stage.

Some learners may want to take a number of complementary qualifications or keep their progression options open. These learners may be suited to taking a BTEC National Certificate or Extended Certificate. Learners who then decide to continue with a fuller vocational programme can transfer to a BTEC National Diploma or Extended Diploma, for example for their second year.

Some learners are sure of the sector they want to work in and are aiming for progression into that sector via higher education. These learners should be directed to the two-year BTEC National Extended Diploma as the most suitable qualification.

As a centre, you may want to teach learners who are taking different qualifications together. You may also wish to transfer learners between programmes to meet changes in their progression needs. You should check the qualification structures and unit combinations carefully as there is no exact match among the different sizes. You may find that learners need to complete more than the minimum number of units when transferring.

When learners are recruited, you need to give them accurate information on the title and focus of the qualification for which they are studying.

Is there a learner entry requirement?

As a centre it is your responsibility to ensure that learners who are recruited have a reasonable expectation of success on the programme. There are no formal entry requirements but we expect learners to have qualifications at or equivalent to Level 2.

Learners are most likely to succeed if they have:

- five GCSEs at good grades and/or
- BTEC qualification(s) at Level 2
- achievement in English and mathematics through GCSE or Functional Skills.

Learners may demonstrate ability to succeed in various ways. For example, learners may have relevant work experience or specific aptitude shown through diagnostic tests or non-education experience.

What is involved in becoming an approved centre?

All centres must be approved before they can offer these qualifications – so that they are ready to assess learners and so that we can provide the support that it is needed. Further information is given in Section 8.

What level of sector knowledge is needed to teach these qualifications?

We do not set any requirements for teachers but expect that centres will assess the overall skills and knowledge of the teaching team to ensure that they are relevant and up to date. This will give learners a rich programme to prepare them for employment in the sector. As part of the requirements of the programme are to involve employers in delivery this should support centres in ensuring that they are following up to date practices when delivering the programme.

What resources are required to deliver these qualifications?

As part of your centre approval you will need to show that the necessary material resources and work spaces are available to deliver BTEC Nationals. For some units, specific resources are required. This is indicated in the units.
How can myBTEC help with planning for these qualifications?
myBTEC is an online toolkit that supports the delivery, assessment and quality assurance of BTECs in centres. It supports teachers with activities, such as choosing a valid combination of units, creating assignment briefs and creating assessment plans. For further information see Section 10.

Which modes of delivery can be used for these qualifications?
You are free to deliver BTEC Nationals using any form of delivery that meets the needs of your learners. We recommend making use of a wide variety of modes, including direct instruction in classrooms or work environments, investigative and practical work, group and peer work, private study and e-learning.

What are the requirements for meaningful employer involvement?

Requirements
This BTEC National Extended Certificate in Countryside Management has been designed as a Tech Level qualification. As an approved centre you are required to ensure that during their study, every learner has access to meaningful activity involving employers. Involvement should be with employers from the countryside management sector and should form a significant part of the delivery or assessment of the qualification. Each centre’s approach to employer involvement will be monitored in two ways. It will be monitored at centre level in the first term each year as part of the annual quality management review process that addresses centre strategy for delivery, assessment and quality assurance, when we will ask you to show evidence of how employer involvement is provided for all learners. You will need to show evidence in order to gain reporting clearance for certification. It will be monitored also at programme level as part of the standards verification process to confirm that plans for employer involvement meet the requirements of the specification. These approaches are designed to ensure additional activities can be scheduled where necessary so learners are not disadvantaged (see Section 8 Quality assurance).

We know that the vast majority of programmes already have established links with employers. In order to give you maximum flexibility in creating and strengthening employer involvement, we have not specified a particular level of input from employers. However, meaningful employer involvement, as defined below, should contribute significantly to at least one mandatory unit.

For this qualification, learners are expected to undertake 75 hours of work experience.

This is the mandatory unit that specifies where assessment will be linked to employers:
• Unit 4: Work Experience in the Land-based Sectors.

There are suggestions in many of the units about how employers could become involved in delivery and/or assessment. These suggestions are not exhaustive and there will be other possibilities at local level.

Employer involvement in these units is subject to verification as part of the standards verification process (see Section 8).

Definition
Activities that are eligible to be counted as meaningful engagement are:
• structured work experience or work placements that develop skills and knowledge relevant to the qualification
• projects or assessments set with input from industry practitioners
• masterclasses or guest lectures from industry practitioners
• ‘expert witness’ reports from practitioners that contribute to the assessment of a learner’s work.

There may be other ways in which learners can benefit from contact with employers or prepare for employment, such as listening to careers talks or working in simulated environments. While they provide benefits to learners they do not count as meaningful engagement.

Support
It is important that you give learners opportunities that are high quality and directly relevant to their study. We will support you in this through guidance materials and by giving you examples of best practice.

**What support is available?**

We provide a wealth of support materials, including curriculum plans, delivery guides, authorised assignment briefs, additional papers for external assessments and examples of marked learner work.

You will be allocated a Standards Verifier early on in the planning stage to support you with planning your assessments. There will be extensive training programmes as well as support from our Subject Advisor team.

For further details see Section 10.

**How will my learners become more employable through these qualifications?**

BTEC Nationals are mapped to relevant occupational standards (see *Appendix 1*).

In the mandatory content and the selected optional units that focus on technical preparation learners will be acquiring the key knowledge and skills that employers need. Also, employability skills such as team working and entrepreneurialism, and completing realistic tasks, have been built into the design of the learning aims and content. This gives you the opportunity to use relevant contexts, scenarios and materials to enable learners to develop a portfolio of evidence that demonstrates the breadth of their skills and knowledge in a way that equips them for employment.
5 Assessment structure and external assessment

Introduction

BTEC Nationals are assessed using a combination of internal assessments, which are set and marked by teachers, and external assessments which are set and marked by Pearson:

- mandatory units have a combination of internal and external assessments
- all optional units are internally assessed.

We have taken great care to ensure that the assessment method chosen is appropriate to the content of the unit and in line with requirements from employers and higher education.

In developing an overall plan for delivery and assessment for the programme, you will need to consider the order in which you deliver units, whether delivery is over short or long periods and when assessment can take place. Some units are defined as synoptic units (see Section 2).

Normally, a synoptic assessment is one that a learner would take later in a programme and in which they will be expected to apply learning from a range of units. Synoptic units may be internally or externally assessed. Where a unit is externally assessed you should refer to the sample assessment materials (SAMs) to identify where there is an expectation that learners draw on their wider learning. For internally-assessed units, you must plan the assignments so that learners can demonstrate learning from across their programme. A unit may be synoptic in one qualification and not another because of the relationship it has to the rest of the qualification.

We have addressed the need to ensure that the time allocated to final assessment of internal and external units is reasonable so that there is sufficient time for teaching and learning, formative assessment and development of transferable skills.

In administering internal and external assessment, the centre needs to be aware of the specific procedures and policies that apply, for example to registration, entries and results. An overview with signposting to relevant documents is given in Section 7.

Internal assessment

Our approach to internal assessment for these qualifications will be broadly familiar to experienced centres. It offers flexibility in how and when you assess learners, provided that you meet assessment and quality assurance requirements. You will need to take account of the requirements of the unit format, which we explain in Section 3, and the requirements for delivering assessment given in Section 6.

External assessment

A summary of the external assessment for this qualification is given in Section 2. You should check this information carefully, together with the unit specification and the sample assessment materials, so that you can timetable learning and assessment periods appropriately.

Learners must be prepared for external assessment by the time they undertake it. In preparing learners for assessment you will want to take account of required learning time, the relationship with other external assessments and opportunities for retaking. You should ensure that learners are not entered for unreasonable amounts of external assessment in one session. Learners may resit an external assessment to obtain a higher grade of near pass or above. If a learner has more than one attempt, then the best result will be used for qualification grading, up to the permitted maximum. It is unlikely that learners will need to or benefit from taking all assessment twice so you are advised to plan appropriately. Some assessments are synoptic and learners are likely to perform best if these assessments are taken towards the end of the programme.
Key features of external assessment in countryside management

In countryside management, after consultation with stakeholders, we have developed the following unit.

- **Unit 1: Professional Working Responsibilities** – learners complete written tasks examining their knowledge and skills in the areas of professional working practice, personal welfare, and responsibilities for themselves, others and the environment. The unit provides crucial knowledge and skills for wide-ranging roles found in the countryside management sector.

Units

The externally-assessed units have a specific format which we explain in Section 3. The content of units will be sampled across external assessments over time, through appropriate papers and tasks. The ways in which learners are assessed are shown through the assessment outcomes and grading descriptors. External assessments are marked and awarded using the grade descriptors. The grades available are Distinction (D), Merit (M), Pass (P) and Near Pass (N). The Near Pass (N) grade gives learners credit below a Pass, where they have demonstrated evidence of positive performance which is worth more than an unclassified result but not yet at the Pass standard.

Sample assessment materials

Each externally-assessed unit has a set of sample assessment materials (SAMs) that accompanies this specification. The SAMs are there to give you an example of what the external assessment will look like in terms of the feel and level of demand of the assessment. In the case of units containing synoptic assessment, the SAMs will also show where learners are expected to select and apply from across the programme.

The SAMs show the range of possible question types that may appear in the actual assessments. They give you a good indication of how the assessments will be structured. While SAMs can be used for practice with learners as with any assessment, the content covered and specific details of the questions asked will change in each assessment.

A copy of each of these assessments can be downloaded from our website. To allow your learners further opportunities for practice, an additional sample of each of the Pearson-set units will be available before the first sitting of the assessment.
6 Internal assessment

This section gives an overview of the key features of internal assessment and how you, as an approved centre, can offer it effectively. The full requirements and operational information are given in the Pearson Quality Assurance Handbook. All members of the assessment team need to refer to this document.

For BTEC Nationals it is important that you can meet the expectations of stakeholders and the needs of learners by providing a programme that is practical and applied. Centres can tailor programmes to meet local needs and use links with local employers and the wider vocational sector.

When internal assessment is operated effectively it is challenging, engaging, practical and up to date. It must also be fair to all learners and meet national standards.

Principles of internal assessment

Assessment through assignments

For internally-assessed units, the format of assessment is an assignment taken after the content of the unit, or part of the unit if several assignments are used, has been delivered. An assignment may take a variety of forms, including practical and written types. An assignment is a distinct activity completed independently by learners that is separate from teaching, practice, exploration and other activities that learners complete with direction from, and formative assessment by, teachers.

An assignment is issued to learners as an assignment brief with a defined start date, a completion date and clear requirements for the evidence that they need to provide. There may be specific observed practical components during the assignment period. Assignments can be divided into tasks and may require several forms of evidence. A valid assignment will enable a clear and formal assessment outcome based on the assessment criteria.

Assessment decisions through applying unit-based criteria

Assessment decisions for BTEC Nationals are based on the specific criteria given in each unit and set at each grade level. To ensure that standards are consistent in the qualification and across the suite as a whole, the criteria for each unit have been defined according to a framework. The way in which individual units are written provides a balance of assessment of understanding, practical skills and vocational attributes appropriate to the purpose of qualifications.

The assessment criteria for a unit are hierarchical and holistic. For example, if an M criterion requires the learner to show ‘analysis’ and the related P criterion requires the learner to ‘explain’, then to satisfy the M criterion a learner will need to cover both ‘explain’ and ‘analyse’. The unit assessment grid shows the relationships among the criteria so that assessors can apply all the criteria to the learner’s evidence at the same time. In Appendix 2 we have set out a definition of terms that assessors need to understand.

Assessors must show how they have reached their decisions using the criteria in the assessment records. When a learner has completed all the assessment for a unit then the assessment team will give a grade for the unit. This is given simply according to the highest level for which the learner is judged to have met all the criteria. Therefore:

- to achieve a Distinction, a learner must have satisfied all the Distinction criteria (and therefore the Pass and Merit criteria); these define outstanding performance across the unit as a whole
- to achieve a Merit, a learner must have satisfied all the Merit criteria (and therefore the Pass criteria) through high performance in each learning aim
- to achieve a Pass, a learner must have satisfied all the Pass criteria for the learning aims, showing coverage of the unit content and therefore attainment at Level 3 of the national framework.
The award of a Pass is a defined level of performance and cannot be given solely on the basis of a learner completing assignments. Learners who do not satisfy the Pass criteria should be reported as Unclassified.

The assessment team
It is important that there is an effective team for internal assessment. There are three key roles involved in implementing assessment processes in your centre, each with different interrelated responsibilities, the roles are listed below. Full information is given in the Pearson Quality Assurance Handbook.

- The Lead Internal Verifier (the Lead IV) has overall responsibility for the programme, its assessment and internal verification to meet our requirements, record keeping and liaison with the Standards Verifier. The Lead IV registers with Pearson annually. The Lead IV acts as an assessor, supports the rest of the assessment team, makes sure that they have the information they need about our assessment requirements and organises training, making use of our guidance and support materials.
- Internal Verifiers (IVs) oversee all assessment activity in consultation with the Lead IV. They check that assignments and assessment decisions are valid and that they meet our requirements. IVs will be standardised by working with the Lead IV. Normally, IVs are also assessors but they do not verify their own assessments.
- Assessors set or use assignments to assess learners to national standards. Before taking any assessment decisions, assessors participate in standardisation activities led by the Lead IV. They work with the Lead IV and IVs to ensure that the assessment is planned and carried out in line with our requirements.

Effective organisation
Internal assessment needs to be well organised so that the progress of learners can be tracked and so that we can monitor that assessment is being carried out in line with national standards. We support you through, for example, providing training materials and sample documentation. Our online myBTEC service can help support you in planning and record keeping. Further information on using myBTEC can be found in Section 10 and on our website.

It is particularly important that you manage the overall assignment programme and deadlines to make sure that learners are able to complete assignments on time.

Learner preparation
To ensure that you provide effective assessment for your learners, you need to make sure that they understand their responsibilities for assessment and the centre’s arrangements.

From induction onwards, you will want to ensure that learners are motivated to work consistently and independently to achieve the requirements of the qualifications. Learners need to understand how assignments are used, the importance of meeting assignment deadlines and that all the work submitted for assessment must be their own.

You will need to give learners a guide that explains how assignments are used for assessment, how assignments relate to the teaching programme and how learners should use and reference source materials, including what would constitute plagiarism. The guide should also set out your approach to operating assessment, such as how learners must submit work and request extensions.
Setting effective assignments

Setting the number and structure of assignments

In setting your assignments, you need to work with the structure of assignments shown in the Essential information for assignments section of a unit. This shows the structure of the learning aims and criteria that you must follow and the recommended number of assignments that you should use. For some units we provide authorised assignment briefs. For all the units we give you suggestions on how to create suitable assignments. You can find these materials along with this specification on our website. In designing your own assignment briefs you should bear in mind the following points.

- The number of assignments for a unit must not exceed the number shown in Essential information for assignments. However, you may choose to combine assignments, for example to create a single assignment for the whole unit.
- You may also choose to combine all or parts of different units into single assignments, provided that all units and all their associated learning aims are fully addressed in the programme overall. If you choose to take this approach, you need to make sure that learners are fully prepared so that they can provide all the required evidence for assessment and that you are able to track achievement in the records.
- A learning aim must always be assessed as a whole and must not be split into two or more tasks.
- The assignment must be targeted to the learning aims but the learning aims and their associated criteria are not tasks in themselves. Criteria are expressed in terms of the outcome shown in the evidence.
- For units containing synoptic assessment, the planned assignments must allow learners to select and apply their learning using appropriate self-management of tasks.
- You do not have to follow the order of the learning aims of a unit in setting assignments but later learning aims often require learners to apply the content of earlier learning aims and they may require learners to draw their learning together.
- Assignments must be structured to allow learners to demonstrate the full range of achievement at all grade levels. Learners need to be treated fairly by being given the opportunity to achieve a higher grade if they have the ability.
- As assignments provide a final assessment, they will draw on the specified range of teaching content for the learning aims. The specified content is compulsory. The evidence for assessment need not cover every aspect of the teaching content as learners will normally be given particular examples, case studies or contexts in their assignments. For example, if a learner is carrying out one practical performance, or an investigation of one organisation, then they will address all the relevant range of content that applies in that instance.

Providing an assignment brief

A good assignment brief is one that, through providing challenging and realistic tasks, motivates learners to provide appropriate evidence of what they have.

An assignment brief should have:

- a vocational scenario, this could be a simple situation or a full, detailed set of vocational requirements that motivates the learner to apply their learning through the assignment
- clear instructions to the learner about what they are required to do, normally set out through a series of tasks
- an audience or purpose for which the evidence is being provided
- an explanation of how the assignment relates to the unit(s) being assessed.
Forms of evidence

BTEC Nationals have always allowed for a variety of forms of evidence to be used, provided that they are suited to the type of learning aim being assessed. For many units, the practical demonstration of skills is necessary and for others, learners will need to carry out their own research and analysis. The units give you information on what would be suitable forms of evidence to give learners the opportunity to apply a range of employability or transferable skills. Centres may choose to use different suitable forms for evidence to those proposed. Overall, learners should be assessed using varied forms of evidence.

Full definitions of types of assessment are given in Appendix 2. These are some of the main types of assessment:

- written reports
- projects
- time-constrained practical assessments with observation records and supporting evidence
- recordings of performance
- sketchbooks, working logbooks, reflective journals
- presentations with assessor questioning.

The form(s) of evidence selected must:

- allow the learner to provide all the evidence required for the learning aim(s) and the associated assessment criteria at all grade levels
- allow the learner to produce evidence that is their own independent work
- allow a verifier to independently reassess the learner to check the assessor’s decisions.

For example, when you are using performance evidence, you need to think about how supporting evidence can be captured through recordings, photographs or task sheets.

Centres need to take particular care that learners are enabled to produce independent work. For example, if learners are asked to use real examples, then best practice would be to encourage them to use their own or to give the group a number of examples that can be used in varied combinations.
Making valid assessment decisions

Authenticity of learner work

Once an assessment has begun, learners must not be given feedback on progress towards fulfilling the targeted criteria.

An assessor must assess only learner work that is authentic, i.e. learners’ own independent work. Learners must authenticate the evidence that they provide for assessment through signing a declaration stating that it is their own work.

Assessors must ensure that evidence is authentic to a learner through setting valid assignments and supervising them during the assessment period. Assessors must take care not to provide direct input, instructions or specific feedback that may compromise authenticity.

Assessors must complete a declaration that:

• the evidence submitted for this assignment is the learner’s own
• the learner has clearly referenced any sources used in the work
• they understand that false declaration is a form of malpractice.

Centres can use Pearson templates or their own templates to document authentication.

During assessment, an assessor may suspect that some or all of the evidence from a learner is not authentic. The assessor must then take appropriate action using the centre’s policies for malpractice. Further information is given in Section 7.

Making assessment decisions using criteria

Assessors make judgements using the criteria. The evidence from a learner can be judged using all the relevant criteria at the same time. The assessor needs to make a judgement against each criterion that evidence is present and sufficiently comprehensive. For example, the inclusion of a concluding section may be insufficient to satisfy a criterion requiring ‘evaluation’.

Assessors should use the following information and support in reaching assessment decisions:

• the Essential information for assessment decisions section in each unit gives examples and definitions related to terms used in the criteria
• the explanation of key terms in Appendix 2
• examples of assessed work provided by Pearson
• your Lead IV and assessment team’s collective experience, supported by the standardisation materials we provide.

Pass and Merit criteria relate to individual learning aims. The Distinction criteria as a whole relate to outstanding performance across the unit. Therefore, criteria may relate to more than one learning aim (for example A.D1) or to several learning aims (for example DE.D3). Distinction criteria make sure that learners have shown that they can perform consistently at an outstanding level across the unit and/or that they are able to draw learning together across learning aims.

Dealing with late completion of assignments

Learners must have a clear understanding of the centre policy on completing assignments by the deadlines that you give them. Learners may be given authorised extensions for legitimate reasons, such as illness at the time of submission, in line with your centre policies.

For assessment to be fair, it is important that learners are all assessed in the same way and that some learners are not disadvantaged by having additional time or the opportunity to learn from others. Therefore, learners who do not complete assignments by your planned deadline or the authorised extension deadline may not have the opportunity to subsequently resubmit.

If you accept a late completion by a learner, then the assignment should be assessed normally when it is submitted using the relevant assessment criteria.
Issuing assessment decisions and feedback

Once the assessment team has completed the assessment process for an assignment, the outcome is a formal assessment decision. This is recorded formally and reported to learners.

The information given to the learner:
- must show the formal decision and how it has been reached, indicating how or where criteria have been met
- may show why attainment against criteria has not been demonstrated
- must not provide feedback on how to improve evidence
- must be validated by an IV before it is given to the learner.

Resubmission of improved evidence

An assignment provides the final assessment for the relevant learning aims and is normally a final assessment decision, except where the Lead IV approves one opportunity to resubmit improved evidence based on the completed assignment brief.

The Lead IV has the responsibility to make sure that resubmission is operated fairly. This means:
- checking that a learner can be reasonably expected to perform better through a second submission, for example that the learner has not performed as expected
- making sure that giving a further opportunity can be done in such a way that it does not give an unfair advantage over other learners, for example through the opportunity to take account of feedback given to other learners
- checking that the assessor considers that the learner will be able to provide improved evidence without further guidance and that the original evidence submitted remains valid.

Once an assessment decision has been given to the learner, the resubmission opportunity must have a deadline within 15 working days in the same academic year.

A resubmission opportunity must not be provided where learners:
- have not completed the assignment by the deadline without the centre’s agreement
- have submitted work that is not authentic.

Retake of internal assessment

A learner who has not achieved the level of performance required to pass the relevant learning aims after resubmission of an assignment may be offered a single retake opportunity using a new assignment. The retake may only be achieved at a Pass.

The Lead Internal Verifier must only authorise a retake of an assignment in exceptional circumstances where they believe it is necessary, appropriate and fair to do so. For further information on offering a retake opportunity, you should refer to the BTEC Centre Guide to Internal Assessment. We provide information on writing assignments for retakes on our website (www.btec.co.uk/keydocuments).
**Planning and record keeping**

For internal processes to be effective, an assessment team needs to be well organised and keep effective records. The centre will also work closely with us so that we can quality assure that national standards are being satisfied. This process gives stakeholders confidence in the assessment approach.

The Lead IV must have an assessment plan, produced as a spreadsheet or using myBTEC. When producing a plan, the assessment team may wish to consider:

- the time required for training and standardisation of the assessment team
- the time available to undertake teaching and carry out assessment, taking account of when learners may complete external assessments and when quality assurance will take place
- the completion dates for different assignments
- who is acting as IV for each assignment and the date by which the assignment needs to be verified
- setting an approach to sampling assessor decisions though internal verification that covers all assignments, assessors and a range of learners
- how to manage the assessment and verification of learners’ work so that they can be given formal decisions promptly
- how resubmission opportunities can be scheduled.

The Lead IV will also maintain records of assessment undertaken. The key records are:

- verification of assignment briefs
- learner authentication declarations
- assessor decisions on assignments, with feedback given to learners
- verification of assessment decisions.

Examples of records and further information are given in the *Pearson Quality Assurance Handbook*. 
7 Administrative arrangements

Introduction

This section focuses on the administrative requirements for delivering a BTEC qualification. It will be of value to Quality Nominees, Lead IVs, Programme Leaders and Examinations Officers.

Learner registration and entry

Shortly after learners start the programme of learning, you need to make sure that they are registered for the qualification and that appropriate arrangements are made for internal and external assessment. You need to refer to the Information Manual for information on making registrations for the qualification and entries for external assessments.

Learners can be formally assessed only for a qualification on which they are registered. If learners’ intended qualifications change, for example if a learner decides to choose a different pathway specialism, then the centre must transfer the learner appropriately.

Access to assessment

Both internal and external assessments need to be administered carefully to ensure that all learners are treated fairly, and that results and certification are issued on time to allow learners to progress to chosen progression opportunities.

Our equality policy requires that all learners should have equal opportunity to access our qualifications and assessments, and that our qualifications are awarded in a way that is fair to every learner. We are committed to making sure that:

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

Further information on access arrangements can be found in the Joint Council for Qualifications (JCQ) document Access Arrangements, Reasonable Adjustments and Special Consideration for General and Vocational Qualifications.
Administrative arrangements for internal assessment

**Records**
You are required to retain records of assessment for each learner. Records should include assessments taken, decisions reached and any adjustments or appeals. Further information can be found in the *Information Manual*. We may ask to audit your records so they must be retained as specified.

**Reasonable adjustments to assessment**
A reasonable adjustment is one that is made before a learner takes an assessment to ensure that they have fair access to demonstrate the requirements of the assessments. You are able to make adjustments to internal assessments to take account of the needs of individual learners. In most cases this can be achieved through a defined time extension or by adjusting the format of evidence. We can advise you if you are uncertain as to whether an adjustment is fair and reasonable. You need to plan for time to make adjustments if necessary.

Further details on how to make adjustments for learners with protected characteristics are given on our website in the document *Supplementary guidance for reasonable adjustment and special consideration in vocational internally-assessed units*.

**Special consideration**
Special consideration is given after an assessment has taken place for learners who have been affected by adverse circumstances, such as illness. You must operate special consideration in line with our policy (see previous paragraph). You can provide special consideration related to the period of time given for evidence to be provided or for the format of the assessment if it is equally valid. You may not substitute alternative forms of evidence to that required in a unit, or omit the application of any assessment criteria to judge attainment. Pearson can consider applications for special consideration in line with the policy.

**Appeals against assessment**
Your centre must have a policy for dealing with appeals from learners. These appeals may relate to assessment decisions being incorrect or assessment not being conducted fairly. The first step in such a policy could be a consideration of the evidence by a Lead IV or other member of the programme team. The assessment plan should allow time for potential appeals after assessment decisions have been given to learners. If there is an appeal by a learner, you must document the appeal and its resolution. Learners have a final right of appeal to Pearson but only if the procedures that you have put in place have not been followed. Further details are given in our policy *Enquiries and appeals about Pearson Vocational Qualifications*.
Administrative arrangements for external assessment

Entries and resits
For information on the timing of assessment and entries, please refer to the annual examinations timetable on our website.

Access arrangements requests
Access arrangements are agreed with Pearson before an assessment. They allow students with special educational needs, disabilities or temporary injuries to:
• access the assessment
• show what they know and can do without changing the demands of the assessment.
Access arrangements should always be processed at the time of registration. Learners will then know what type of arrangements are available in place for them.

Granting reasonable adjustments
For external assessment, a reasonable adjustment is one that we agree to make for an individual learner. A reasonable adjustment is defined for the individual learner and informed by the list of available access arrangements.
Whether an adjustment will be considered reasonable will depend on a number of factors, to include:
• the needs of the learner with the disability
• the effectiveness of the adjustment
• the cost of the adjustment; and
• the likely impact of the adjustment on the learner with the disability and other learners.
Adjustment may be judged unreasonable and not approved if it involves unreasonable costs, timeframes or affects the integrity of the assessment.

Special consideration requests
Special consideration is an adjustment made to a learner’s mark or grade after an external assessment to reflect temporary injury, illness or other indisposition at the time of the assessment. An adjustment is made only if the impact on the learner is such that it is reasonably likely to have had a material effect on that learner being able to demonstrate attainment in the assessment.
Centres are required to notify us promptly of any learners that they believe have been adversely affected and request that we give special consideration. Further information can be found in the special requirements section on our website.
Conducting external assessments

Centres must make arrangement for the secure delivery of external assessments. External assessments for BTEC qualifications include examinations, set tasks and performance.

Each external assessment has a defined degree of control under which it must take place. Some external assessments may have more than one part and each part may have a different degree of control. We define degrees of control as follows.

**High control**

This is the completion of assessment in formal invigilated examination conditions.

**Medium control**

This is completion of assessment, usually over a longer period of time, which may include a period of controlled conditions. The controlled conditions may allow learners to access resources, prepared notes or the internet to help them complete the task.

**Low control**

These are activities completed without direct supervision. They may include research, preparation of materials and practice. The materials produced by learners under low control will not be directly assessed.

Further information on responsibilities for conducting external assessment is given in the document *Instructions for Conducting External Assessments*, available on our website.
Dealing with malpractice in assessment

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

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

Malpractice may arise or be suspected in relation to any unit or type of assessment within the qualification. For further details regarding malpractice and advice on preventing malpractice by learners, please see Pearson’s Centre Guidance: Dealing with Malpractice, available on our website. The procedures we ask you to adopt vary between units that are internally-assessed and those that are externally assessed.

Internally-assessed units

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

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

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

Externally-assessed units

External assessment means all aspects of units that are designated as external in this specification, including preparation for tasks and performance. For these assessments, centres must follow the JCQ procedures set out in the latest version of JCQ Suspected Malpractice in Examinations and Assessments Policies and Procedures (www.jcq.org.uk).

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

Learner malpractice

Heads of Centres are required to report incidents of any suspected learner malpractice that occur during Pearson external assessments. We ask that centres do so by completing a JCQ Form M1 (available at www.jcq.org.uk/exams-office/malpractice) and emailing it and any accompanying documents (signed statements from the learner, invigilator, copies of evidence, etc.) to the Investigations Team at candidatemalpractice@pearson.com. The responsibility for determining appropriate sanctions or penalties to be imposed on learners lies with Pearson.

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

Heads of Centres are required to inform Pearson’s Investigations Team of any incident of suspected malpractice by centre staff, before any investigation is undertaken. Heads of centres are requested to inform the Investigations Team by submitting a *JCQ Form M2(a)* (available at www.jcq.org.uk/exams-office/malpractice) with supporting documentation to pqsmalpractice@pearson.com. Where Pearson receives allegations of malpractice from other sources (for example Pearson staff or anonymous informants), the Investigations Team will conduct the investigation directly or may ask the head of centre to assist.

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

Heads of Centres/Principals/Chief Executive Officers or their nominees are required to inform learners and centre staff suspected of malpractice of their responsibilities and rights; see Section 6.15 of the *JCQ Suspected Malpractice in Examinations and Assessments Policies and Procedures* document.

Pearson reserves the right in cases of suspected malpractice to withhold the issuing of results and/or certificates while an investigation is in progress. Depending on the outcome of the investigation results and/or certificates may be released or withheld.

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

**Sanctions and appeals**

Where malpractice is proven we may impose sanctions or penalties.

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

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

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

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

The centre will be notified if any of these apply.

Pearson has established procedures for centres that are considering appeals against penalties and sanctions arising from malpractice. Appeals against a decision made by Pearson will normally be accepted only from heads of centres (on behalf of learners and/or members of staff) and from individual members (in respect of a decision taken against them personally). Further information on appeals can be found in our *Enquiries and Appeals* policy, which is on our website. In the initial stage of any aspect of malpractice, please notify the Investigations Team by email via pqsmalpractice@pearson.com who will inform you of the next steps.
Certification and results
Once a learner has completed all the required components for a qualification, even if final results for external assessments have not been issued, then the centre can claim certification for the learner, provided that quality assurance has been successfully completed. For the relevant procedures please refer to our Information Manual. You can use the information provided on qualification grading to check overall qualification grades.

Results issue
After the external assessment session, learner results will be issued to centres. The result will be in the form of a grade. You should be prepared to discuss performance with learners, making use of the information we provide and post-results services.

Post-assessment services
Once results for external assessments are issued, you may find that the learner has failed to achieve the qualification or to attain an anticipated grade. It is possible to transfer or reopen registration in some circumstances. The Information Manual gives further information.

Changes to qualification requests
Where a learner who has taken a qualification wants to resit an externally-assessed unit to improve their qualification grade, you firstly need to decline their overall qualification grade. You may decline the grade before the certificate is issued. For a learner receiving their results in August, you should decline the grade by the end of September if the learner intends to resit an external assessment.

Additional documents to support centre administration
As an approved centre you must ensure that all staff delivering, assessing and administering the qualifications have access to this documentation. These documents are reviewed annually and are reissued if updates are required.
- Pearson Quality Assurance Handbook: this sets out how we will carry out quality assurance of standards and how you need to work with us to achieve successful outcomes.
- Information Manual: this gives procedures for registering learners for qualifications, transferring registrations, entering for external assessments and claiming certificates.
- Lead Examiners' Reports: these are produced after each series for each external assessment and give feedback on the overall performance of learners in response to tasks or questions set.
- Instructions for the Conduct of External Assessments: this explains our requirements for the effective administration of external assessments, such as invigilation and submission of materials.
- Regulatory policies: our regulatory policies are integral to our approach and explain how we meet internal and regulatory requirements. We review the regulated policies annually to ensure that they remain fit for purpose. Policies related to this qualification include:
  - adjustments for candidates with disabilities and learning difficulties, access arrangements and reasonable adjustments for general and vocational qualifications
  - age of learners
  - centre guidance for dealing with malpractice
  - recognition of prior learning and process.
This list is not exhaustive and a full list of our regulatory policies can be found on our website.
8 Quality assurance

Centre and qualification approval

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

- Centres must have appropriate physical resources (for example equipment, IT, learning materials, teaching rooms) to support the delivery and assessment of the qualification.
- Staff involved in the assessment process must have relevant expertise and/or occupational experience.
- There must be systems in place to ensure continuing professional development for staff delivering the qualification.
- Centres must have in place appropriate health and safety policies relating to the use of equipment by learners.
- Centres must deliver the qualification in accordance with current equality legislation.
- Centres should refer to the teacher guidance section in individual units to check for any specific resources required.

Continuing quality assurance and standards verification

On an annual basis, we produce the Pearson Quality Assurance Handbook. It contains detailed guidance on the quality processes required to underpin planning for delivery including appropriate employer involvement, and for robust assessment and internal verification.

The key principles of quality assurance are that:

- a centre delivering BTEC programmes must be an approved centre, and must have approval for the programmes or groups of programmes that it is delivering
- the centre agrees, as part of gaining approval, to abide by specific terms and conditions around the effective delivery and quality assurance of assessment; it must abide by these conditions throughout the period of delivery
- Pearson makes available to approved centres a range of materials and opportunities, through online standardisation, intended to exemplify the processes required for effective assessment, and examples of effective standards. Approved centres must use the materials and services to ensure that all staff delivering BTEC qualifications keep up to date with the guidance on assessment
- an approved centre must follow agreed protocols for standardisation of assessors and verifiers, for the planning, monitoring and recording of assessment processes, and for dealing with special circumstances, appeals and malpractice.

The approach of quality-assured assessment is through a partnership between an approved centre and Pearson. We will make sure that each centre follows best practice and employs appropriate technology to support quality-assurance processes, where practicable. We work to support centres and seek to make sure that our quality-assurance processes do not place undue bureaucratic processes on centres. We monitor and support centres in the effective operation of assessment and quality assurance.

The methods we use to do this for BTEC Level 3 include:

- making sure that all centres complete appropriate declarations at the time of approval
- undertaking approval visits to centres
- making sure that centres have effective teams of assessors and verifiers who are trained to undertake assessment
- assessment sampling and verification, through requested samples of assessments, completed assessed learner work and associated documentation
- an overarching review and assessment of a centre’s strategy for delivering and quality assuring its BTEC programmes, for example making sure that synoptic units are placed appropriately in the order of delivery of the programme.

Centres that do not fully address and maintain rigorous approaches to delivering, assessing and quality assurance cannot seek certification for individual programmes or for all BTEC Level 3 programmes. An approved centre must make certification claims only when authorised by us and strictly in accordance with requirements for reporting.

Centres that do not comply with remedial action plans may have their approval to deliver qualifications removed.
9 Understanding the qualification grade

Awarding and reporting for the qualification

This section explains the rules that we apply in awarding a qualification and in providing an overall qualification grade for each learner. It shows how all the qualifications in this sector are graded.

The awarding and certification of these qualifications will comply with regulatory requirements.

Eligibility for an award

In order to be awarded a qualification, a learner must complete all units, achieve a near pass (N) or above in all external units and a pass or above in all mandatory units unless otherwise specified. Refer to the structure in Section 2.

To achieve any qualification grade, learners must:

• complete and have an outcome (D, M, P, N or U) for all units within a valid combination
• achieve the required units at pass or above shown in Section 2, and for the Diploma achieve a minimum of 600 GLH and Extended Diploma achieve a minimum 900 GLH at pass or above (or N or above in external units)
• achieve the minimum number of points at a grade threshold.

It is the responsibility of a centre to ensure that a correct unit combination is adhered to. Learners who do not achieve the required minimum grade (N or P) in units shown in the structure will not achieve a qualification.

Learners who do not achieve sufficient points for a qualification or who do not achieve all the required units may be eligible to achieve a smaller qualification in the same suite provided they have completed and achieved the correct combination of units and met the appropriate qualification grade points threshold.

Calculation of the qualification grade

The final grade awarded for a qualification represents an aggregation of a learner’s performance across the qualification. As the qualification grade is an aggregate of the total performance, there is some element of compensation in that a higher performance in some units may be balanced by a lower outcome in others.

In the event that a learner achieves more than the required number of optional units, the mandatory units along with the optional units with the highest grades will be used to calculate the overall result, subject to the eligibility requirements for that particular qualification title.

BTEC Nationals are Level 3 qualifications and are awarded at the grade ranges shown in the table below.

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Available grade range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate, Extended Certificate, Foundation Diploma</td>
<td>P to D*</td>
</tr>
<tr>
<td>Diploma</td>
<td>PP to D<em>D</em></td>
</tr>
<tr>
<td>Extended Diploma</td>
<td>PPP to D<em>D</em>D*</td>
</tr>
</tbody>
</table>

The Calculation of Qualification Grade table, which appears later in this section, shows the minimum thresholds for calculating these grades. The table will be kept under review over the lifetime of the qualification. In the event of any change, centres will be informed before the start of teaching for the relevant cohort and an updated table will be issued on our website.

Learners who do not meet the minimum requirements for a qualification grade to be awarded will be recorded as Unclassified (U) and will not be certificated. They may receive a Notification of Performance for individual units. The Information Manual gives full information.
Points available for internal units
The table below shows the number of points available for internal units. For each internal unit, points are allocated depending on the grade awarded.

<table>
<thead>
<tr>
<th>Unit size</th>
<th>60 GLH</th>
<th>90 GLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pass</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Merit</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Distinction</td>
<td>16</td>
<td>24</td>
</tr>
</tbody>
</table>

Points available for external units
Raw marks from the external units will be awarded points based on performance in the assessment. The table below shows the minimum number of points available for each grade in the external units.

<table>
<thead>
<tr>
<th>Unit size</th>
<th>90 GLH</th>
<th>120 GLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Near Pass</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Pass</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Merit</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>Distinction</td>
<td>24</td>
<td>32</td>
</tr>
</tbody>
</table>

Pearson will automatically calculate the points for each external unit once the external assessment has been marked and grade boundaries have been set. For more details about how we set grade boundaries in the external assessment please go to our website.

Claiming the qualification grade
Subject to eligibility, Pearson will automatically calculate the qualification grade for your learners when the internal unit grades are submitted and the qualification claim is made. Learners will be awarded qualification grades for achieving the sufficient number of points within the ranges shown in the relevant Calculation of Qualification Grade table for the cohort.
Calculation of qualification grade
Applicable for registration from 1 September 2019.

<table>
<thead>
<tr>
<th></th>
<th>Extended Certificate</th>
<th>Foundation Diploma</th>
<th>Diploma</th>
<th>Extended Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GLH 360</td>
<td>GLH 540</td>
<td>GLH 720</td>
<td>GLH 1080</td>
</tr>
<tr>
<td>Grade</td>
<td>Points threshold</td>
<td>Grade</td>
<td>Points threshold</td>
<td>Grade</td>
</tr>
<tr>
<td>U</td>
<td>0</td>
<td>U</td>
<td>0</td>
<td>U</td>
</tr>
<tr>
<td>Pass</td>
<td>36</td>
<td>P</td>
<td>54</td>
<td>PP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MP</td>
<td>MPP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MMP</td>
<td></td>
</tr>
<tr>
<td>Merit</td>
<td>52</td>
<td>M</td>
<td>78</td>
<td>MM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DM</td>
<td>DMM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DDM</td>
</tr>
<tr>
<td>Distinction</td>
<td>74</td>
<td>D</td>
<td>108</td>
<td>DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D*D</td>
<td>D*DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D<em>D</em>D</td>
<td>D<em>D</em>D*</td>
</tr>
<tr>
<td>Distinction*</td>
<td>90</td>
<td>D*</td>
<td>138</td>
<td>D<em>D</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D<em>D</em>D*</td>
</tr>
</tbody>
</table>

The table is subject to review over the lifetime of the qualification. The most up-to-date version will be issued on our website.
Examples of grade calculations based on table applicable to registrations from September 2019

Example 1: Achievement of an Extended Certificate with a P grade

<table>
<thead>
<tr>
<th>GLH</th>
<th>Type (Int/Ext)</th>
<th>Grade</th>
<th>Unit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>120 Ext</td>
<td>Pass</td>
<td>12</td>
</tr>
<tr>
<td>Unit 4</td>
<td>60 Int</td>
<td>Pass</td>
<td>6</td>
</tr>
<tr>
<td>Unit 5</td>
<td>60 Int</td>
<td>Merit</td>
<td>10</td>
</tr>
<tr>
<td>Unit 7</td>
<td>60 Int</td>
<td>Unclassified</td>
<td>0</td>
</tr>
<tr>
<td>Unit 8</td>
<td>60 Int</td>
<td>Merit</td>
<td>10</td>
</tr>
<tr>
<td>Totals</td>
<td>360</td>
<td>P</td>
<td>38</td>
</tr>
</tbody>
</table>

The learner has achieved N or higher in Unit 1, and P or higher in Unit 5.

The learner has sufficient points for a P grade.

Example 2: Achievement of an Extended Certificate with a M grade

<table>
<thead>
<tr>
<th>GLH</th>
<th>Type (Int/Ext)</th>
<th>Grade</th>
<th>Unit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>120 Ext</td>
<td>Near Pass</td>
<td>8</td>
</tr>
<tr>
<td>Unit 4</td>
<td>60 Int</td>
<td>Merit</td>
<td>10</td>
</tr>
<tr>
<td>Unit 5</td>
<td>60 Int</td>
<td>Distinction</td>
<td>16</td>
</tr>
<tr>
<td>Unit 7</td>
<td>60 Int</td>
<td>Distinction</td>
<td>16</td>
</tr>
<tr>
<td>Unit 8</td>
<td>60 Int</td>
<td>Distinction</td>
<td>16</td>
</tr>
<tr>
<td>Totals</td>
<td>360</td>
<td>M</td>
<td>66</td>
</tr>
</tbody>
</table>

The learner has sufficient points for a M grade.
Example 3: An Unclassified Result for an Extended Certificate

<table>
<thead>
<tr>
<th>GLH</th>
<th>Type (Int/Ext)</th>
<th>Grade</th>
<th>Unit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>120</td>
<td>Merit</td>
<td>20</td>
</tr>
<tr>
<td>Unit 4</td>
<td>60</td>
<td>Distinction</td>
<td>16</td>
</tr>
<tr>
<td>Unit 5</td>
<td>60</td>
<td>Unclassified</td>
<td>0</td>
</tr>
<tr>
<td>Unit 7</td>
<td>60</td>
<td>Merit</td>
<td>10</td>
</tr>
<tr>
<td>Unit 8</td>
<td>60</td>
<td>Pass</td>
<td>6</td>
</tr>
</tbody>
</table>

**Totals 360**

The learner has sufficient points for an M grade but has not met the minimum requirement for N or higher in Unit 1, and P or higher in Unit 5.

The learner has a U in Unit 5.
10 Resources and support

Our aim is to give you a wealth of resources and support to enable you to deliver BTEC National qualifications with confidence. On our website you will find a list of resources to support teaching and learning, and professional development.

Support for setting up your course and preparing to teach

Specification
This specification (for teaching from September 2019) includes details on the administration of qualifications and information on all the units for the qualification.

Delivery Guide
This free guide gives you important advice on how to choose the right course for your learners and how to ensure you are fully prepared to deliver the course. It explains the key features of BTEC Nationals (for example employer involvement and employability skills). It also covers guidance on assessment (internal and external) and quality assurance. The guide tells you where you can find further support and gives detailed unit-by-unit delivery guidance. It includes teaching tips and ideas, assessment preparation and suggestions for further resources.

Schemes of work
Free sample schemes of work are provided for each mandatory unit. These are available in Word™ format for ease of customisation.

Curriculum models
These show how the BTECs in the suite fit into a 16–19 study programme, depending on their size and purpose. The models also show where other parts of the programme, such as work experience, maths and English, tutorial time and wider study, fit alongside the programme.

Study skills activities
A range of case studies and activities is provided; they are designed to help learners develop the study skills they need to successfully complete their BTEC course. The case studies and activities are provided in Word™ format for easy customisation.

myBTEC
myBTEC is a free, online toolkit that lets you plan and manage your BTEC provision from one place. It supports the delivery, assessment and quality assurance of BTECs in centres and supports teachers with the following activities:

- checking that a programme is using a valid combination of units
- creating and verifying assignment briefs (including access to a bank of authorised assignment briefs that can be customised)
- creating assessment plans and recording assessment decisions
- tracking the progress of every learner throughout their programme.

To find out more about myBTEC, visit the myBTEC page on the support services section of our website. We will add the new BTEC National specifications to myBTEC as soon as possible.
Support for teaching and learning

Pearson Learning Services provides a range of engaging resources to support BTEC Nationals, including introductory guides to the Next Generation BTEC National approach to learning. Teaching and learning resources are also available from a number of other publishers. Details of Pearson’s own resources and of all endorsed resources can be found on our website.

Support for assessment

Sample assessment materials for externally-assessed units
Sample assessments are available for the Pearson-set units. One copy of each of these assessments can be downloaded from the website/available in print. For each suite, an additional sample for one of the Pearson-set units is also available, allowing your learners further opportunities for practice.

Further sample assessments will be made available through our website on an ongoing basis.

Sample assessment materials for internally-assessed units
We do not prescribe the assessments for the internally-assessed units. Rather, we allow you to set your own, according to your learners’ preferences and to link with your local employment profile.

We do provide a service in the form of Authorised Assignment Briefs, which are approved by Pearson Standards Verifiers. They are available via our website or free on myBTEC.

Sample marked learner work
To support you in understanding the expectation of the standard at each grade, examples of marked learner work at PM/MD grades are linked to the Authorised Assignment Briefs.
Training and support from Pearson

People to talk to

There are many people who are available to support you and provide advice and guidance on delivery of your BTEC Nationals. These include:

- **Subject Advisors** – available for all sectors. They understand all Pearson qualifications in their sector and so can answer sector-specific queries on planning, teaching, learning and assessment
- **Standards Verifiers** – they can support you with preparing your assignments, ensuring that your assessment plan is set up correctly, and support you in preparing learner work and providing quality assurance through sampling
- **Curriculum Development Managers (CDMs)** – they are regionally based and have a full overview of the BTEC qualifications and of the support and resources that Pearson provides. CDMs often run network events
- **Customer Services** – the ‘Support for You’ section of our website gives the different ways in which you can contact us for general queries. For specific queries, our service operators can direct you to the relevant person or department.

Training and professional development

Pearson provides a range of training and professional development events to support the introduction, delivery, assessment and administration of BTEC National qualifications. These sector-specific events, developed and delivered by specialists, are available both face to face and online.

‘Getting Ready to Teach’

These events are designed to get teachers ready for delivery of the BTEC Nationals. They include an overview of the qualifications’ structures, planning and preparation for internal and external assessment, and quality assurance.

Teaching and learning

Beyond the ‘Getting Ready to Teach’ professional development events, there are opportunities for teachers to attend sector- and role-specific events. These events are designed to connect practice to theory; they provide teacher support and networking opportunities with delivery, learning and assessment methodology.

Details of our training and professional development programme can be found on our website.
Appendix 1 Links to industry standards

BTEC Nationals have been developed in consultation with industry and appropriate sector bodies to ensure that the qualification content and approach to assessment aligns closely to the needs of employers. Where they exist, and are appropriate, National Occupational Standards (NOS) and professional body standards have been used to establish unit content.

In the countryside management sector, the following approach has been used:

- the mandatory content has been mapped to NOS to reflect the essential skills and knowledge needed for entry to employment.
Appendix 2 Glossary of terms used for internally-assessed units

This is a summary of the key terms used to define the requirements in the units.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
</table>
| Analyse| Learners present the outcome of methodical and detailed examination, either:  
• breaking down a theme, topic or situation in order to interpret and study the interrelationships between the parts and/or  
• using information or data to interpret and study key trends and interrelationships.  
Analysis can be through performance, practice, written or, less commonly, verbal presentation. |
| Assess | Learners present a careful consideration of varied factors or events that apply to a specific situation, or identify those which are the most important or relevant and arrive at a conclusion. |
| Carry out | Learners demonstrate skills through practical activities, in line with certain requirements. Learners do this in order to complete an identified activity or to demonstrate personal achievement for an audience. |
| Compare | Learners identify the main factors relating to two or more items/situations or aspects of a subject that is extended to explain the similarities, differences, advantages and disadvantages.  
This is used to show depth of knowledge through selection and isolation of characteristics. |
| Demonstrate | Learners’ work, performance or practice evidences the ability to carry out and apply knowledge, understanding and/or skills in a practical situation. |
| Develop | Learners acquire and apply skills and understanding through practical activities that involve the use of concepts, processes or techniques to expand or progress something. |
| Discuss | Learners consider different aspects of:  
• a theme or topic  
• how they interrelate; and  
• the extent to which they are important.  
A conclusion is not required. |
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluate</td>
<td>Learners’ work draws on varied information, themes or concepts to consider aspects such as: • strengths or weaknesses • advantages or disadvantages • alternative actions • relevance or significance. Learners’ enquiries should lead to a supported judgement showing relationship to its context. This will often be in a conclusion. Evidence of explanations could be through visual explanations with annotations, as well as written work, presentation, performance or practice.</td>
</tr>
<tr>
<td>Examine</td>
<td>Learners select and apply knowledge to less familiar contexts.</td>
</tr>
<tr>
<td>Explain</td>
<td>Learners’ work shows clear detail and gives reasons and/or evidence to support an opinion, view or argument. It could show how conclusions are drawn (arrived at). Learners show that they comprehend the origins, functions and objectives of a subject, and its suitability for purpose.</td>
</tr>
<tr>
<td>Explore</td>
<td>Learners apply their skills and/or knowledge in contexts involving practical research or investigation.</td>
</tr>
<tr>
<td>Investigate</td>
<td>Learners’ application of knowledge is based on personal research and development.</td>
</tr>
<tr>
<td>Justify</td>
<td>Learners give reasons or evidence to: • support an opinion • prove something right or reasonable.</td>
</tr>
<tr>
<td>Perform</td>
<td>Learners demonstrate a range of skills required to complete a given activity.</td>
</tr>
<tr>
<td>Plan</td>
<td>Learners create a way of organising a task or a series of tasks to achieve specific requirements or objectives, showing progress from start to finish.</td>
</tr>
<tr>
<td>Reflect</td>
<td>Learners consider their own performance and/or skills and development in relation to a specific scenario or scenarios and/or wider context(s). This may include feedback from others. There is often a requirement for learners to identify strengths and areas for improvement, along with a personal development or action plan.</td>
</tr>
<tr>
<td>Review</td>
<td>Learners make a formal assessment of work produced. The assessment allows learners to appraise existing information or prior events, and reconsider information with the intention of making changes, if necessary.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Select</td>
<td>Learners choose the best or most suitable option, whether this is of materials, techniques, equipment or processes. The options and choices should be based on specific criteria.</td>
</tr>
<tr>
<td>Understand</td>
<td>Learners demonstrate knowledge related to defined situations.</td>
</tr>
<tr>
<td>Undertake</td>
<td>Learners demonstrate skills through practical activities, often referring to given processes or techniques.</td>
</tr>
</tbody>
</table>
This is a key summary of the types of evidence used for BTEC Nationals.

<table>
<thead>
<tr>
<th>Type of evidence</th>
<th>Definition and purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case study</td>
<td>A specific example to which all learners must select and apply knowledge. Used to show application to a realistic context where direct experience cannot be gained.</td>
</tr>
<tr>
<td>Development log</td>
<td>A record kept by learners to show the process of development. Used to show method, self-management and skill development.</td>
</tr>
<tr>
<td>Individual project</td>
<td>A self-directed, large-scale activity requiring planning, research, exploration, outcome and review. Used to show self-management, project management and/or deep learning, including synopticity.</td>
</tr>
<tr>
<td>Log</td>
<td>A record made by learners of how a process of development was carried out, including experimental stages, testing, selection and rejection of alternatives, practice or development steps.</td>
</tr>
<tr>
<td>Plan</td>
<td>Learners produce a plan as an outcome related to a given or limited task.</td>
</tr>
<tr>
<td>Portfolio</td>
<td>Digital or physical, showing a selection of work that contributes towards a project or for a specific purpose.</td>
</tr>
<tr>
<td>Practical task (artefact/outcome)</td>
<td>Learners carry out a defined or self-defined task to produce an outcome.</td>
</tr>
<tr>
<td>Presentation</td>
<td>To show presentation skills, including communication. To direct to a given audience and goal. To extract and summarise information.</td>
</tr>
<tr>
<td>Project</td>
<td>A large-scale activity requiring planning, research, exploration, outcome and review. Used to show self-management, project management and/or deep learning, including synopticity.</td>
</tr>
<tr>
<td>Research</td>
<td>An analysis of substantive research organised by learners from secondary and, if applicable, primary sources.</td>
</tr>
<tr>
<td>Written task/report</td>
<td>Individual completion of a task in a work-related format, e.g. a report, marketing communication, set of instructions.</td>
</tr>
</tbody>
</table>
Pearson
BTEC Level 3 Nationals in Countryside Management

Extended Certificate in Countryside Management
Foundation Diploma in Countryside Management
Diploma in Countryside Management
Extended Diploma in Countryside Management

First teaching from September 2019
First certification from 2020

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