Pearson
BTEC International
Level 3 Specialist Award in Artificial Intelligence Fundamentals

Specification

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Issue 1
Edexcel, BTEC and LCCI qualifications

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About Pearson

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Welcome

With a track record built over 40 years of learner success, our BTEC International qualifications are recognised internationally by governments, industry and higher education.

What are BTEC International Specialist and Professional qualifications?

These BTEC qualifications are available at Levels 1–3 (Specialist) and at Levels 4–7 (Professional).

BTEC International Specialist and Professional qualifications give learners the knowledge and/or skills they need to prepare for employment in a sector or job role. They also provide career development opportunities for those already in work.

They put learning into the context of the world of work, giving learners the opportunity to apply their learning in relevant and realistic work contexts. This applied, practical approach means that learners develop the knowledge and skills they need for career progression or further study.

Sizes of qualification

Pearson estimates the number of guided learning hours (GLH) that will be needed for centre staff to deliver the qualification. This includes all training that involves centre staff in teaching and supervising learners, as well as all assessment activities.

BTEC Specialist and Professional qualifications are available in the following sizes:

- Award – a qualification with a GLH value of 10–120 hours
- Certificate – a qualification with a GLH value of 121–369 hours
- Diploma – a qualification with a GLH value of 370 or above.

Collaborative development

This qualification has been developed with input from industry experts. We are grateful to all the individuals and organisations who generously shared their time and expertise to help us develop this new qualification. Significant contribution towards this qualification came through collaboration with learn-tech.io, a digital learning organisation that aims to simplify Deep Tech through insights, courses and consulting.
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Introduction to the Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence

This specification contains all the information you need to deliver the Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals.

This specification signposts the other essential documents and support that you need as a centre to deliver, assess and administer the qualification, including the staff development required. A summary of all essential documents is given in Section 7: Administrative arrangements.

This qualification is not regulated in England.

The information in this specification is correct at the time of publication.
1 Qualification purpose and progression

Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals

Who is this qualification for?

The Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals is designed to develop knowledge of the functions and operations involved in artificial intelligence (AI) and machine learning, and the skills required to design AI solutions in a specific context.

What could this qualification lead to?

Learners who have completed the Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals can progress on to other qualifications, such as the:

- Pearson BTEC International Level 4 Professional Award in Artificial Intelligence Strategy for Business Leaders.

This qualification supports career progression. The Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals can support learners intending to work in business and seeking to expand their use of digital technologies.
## Qualification summary and key information

<table>
<thead>
<tr>
<th>Qualification title</th>
<th>Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational start date</td>
<td>01/04/2020</td>
</tr>
<tr>
<td>Entry requirements</td>
<td>An understanding of a data analytics programming language, e.g. SQL, R, Python, is required before learners register for this qualification.</td>
</tr>
<tr>
<td>Guided Learning Hours (GLH)</td>
<td>20</td>
</tr>
<tr>
<td>Assessment</td>
<td>The units are assessed using assignments that are set and marked by the centre.</td>
</tr>
<tr>
<td>Unit grading information</td>
<td>Pass</td>
</tr>
<tr>
<td>Qualification grading information</td>
<td>Pass</td>
</tr>
</tbody>
</table>
3 Structure

Qualification structure

Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals

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

<table>
<thead>
<tr>
<th>Unit number</th>
<th>Unit title</th>
<th>GLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Artificial Intelligence Fundamentals</td>
<td>20</td>
</tr>
</tbody>
</table>
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. 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.

<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 specification. Where a specification has more than one qualification, numbers may not be sequential for all qualifications.</td>
</tr>
<tr>
<td>Unit title</td>
<td>This is the formal title that we always use, and it will appear on learners' certificates.</td>
</tr>
<tr>
<td>Level</td>
<td>All units and qualifications have a level assigned to them. The levels correspond with the levels used in the UK's Regulated Qualification Framework.</td>
</tr>
<tr>
<td>Unit type</td>
<td>This says if the unit is mandatory or optional for the qualification.</td>
</tr>
<tr>
<td>Guided Learning Hours (GLH)</td>
<td>Guided Learning Hours (GLH) is an estimate of the number of hours that will be needed for a typical learner to achieve the unit. Guided learning includes all training that involve centre staff in teaching and supervising learners, as well as all assessment activities.</td>
</tr>
<tr>
<td>Unit introduction</td>
<td>This summarises the content of the unit and how learners will benefit from taking it.</td>
</tr>
<tr>
<td>Learning outcomes and assessment criteria</td>
<td>The learning outcomes set out what a learner must know, understand or be able to do as the result of a process of learning. The assessment criteria specify the standard the learner is required to meet to achieve a learning outcome.</td>
</tr>
<tr>
<td>Unit content</td>
<td>This section sets out what needs to be taught. Content is compulsory except when it follows an 'e.g.'. Learners should not be asked to complete the assessment until all of the content for the unit has been taught.</td>
</tr>
<tr>
<td>Essential information for assessors</td>
<td>This section gives information to support delivery and the implementation of assessment.</td>
</tr>
<tr>
<td>Essential resources</td>
<td>This lists any specialist resources needed to deliver the unit. Centres will be asked to show that these resources are in place when they seek approval from Pearson to offer the qualification.</td>
</tr>
<tr>
<td>Section</td>
<td>Explanation</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Suggested assessment approach</strong></td>
<td>This gives suggestions for how to assess the learning outcomes.</td>
</tr>
<tr>
<td><strong>Assessment requirements</strong></td>
<td>This gives detailed information about what evidence learners are required to show in order to meet the assessment requirements.</td>
</tr>
</tbody>
</table>
Index of units

This section contains the unit developed for this qualification. Please refer to page 5 to check which units are available.

Unit 1: Artificial Intelligence Fundamentals 11
Unit 1: Artificial Intelligence Fundamentals

Level: 3

Unit type: Mandatory

Guided learning hours: 20

Unit introduction

This unit gives learners an understanding of the fundamental functions and operations involved in artificial intelligence (AI) and machine learning. Learners explore the underlying philosophies of machine learning and AI, and examine the most efficient AI techniques and the different intelligent systems that help provide solutions to a range of challenges and real-world problems.

Learners explore the applications of AI in a wider context and develop practical skills in AI design. They examine programming structures that drive the creation of AI, and investigate key elements of building neural networks. Learners explore how these are mathematically supported in terms of complex calculations, and regression and classification systems. Learners completing this unit should be familiar with a data analytics programming language, e.g. SQL, R, Python.

Learning outcomes and assessment criteria

To pass this unit, the learner needs to meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

<table>
<thead>
<tr>
<th>Learning outcomes</th>
<th>Assessment criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>A          Understand artificial intelligence fundamentals</td>
<td>A1 Explain the fundamental principles of artificial intelligence.</td>
</tr>
<tr>
<td></td>
<td>A2 Assess the impact of current artificial intelligence applications.</td>
</tr>
<tr>
<td>B          Explore machine learning and neural networks</td>
<td>B1 Explain the principles of machine learning.</td>
</tr>
<tr>
<td></td>
<td>B2 Justify the importance of data management.</td>
</tr>
<tr>
<td></td>
<td>B3 Analyse the approaches to neural networking.</td>
</tr>
<tr>
<td>C          Develop an artificial intelligence solution</td>
<td>C.1 Develop an artificial intelligence programme to solve a simple problem in an appropriate language.</td>
</tr>
<tr>
<td></td>
<td>C.2 Test and optimise an artificial intelligence programme.</td>
</tr>
<tr>
<td></td>
<td>C.3 Evaluate the effectiveness of the artificial intelligence programme to solve a problem.</td>
</tr>
</tbody>
</table>
Unit content

Learning outcome A: Understand artificial intelligence fundamentals

Artificial intelligence

- Types of artificial intelligence - reactive machines, limited memory, theory of mind, self-awareness.
- Issues associated with artificial intelligence.

Applications of artificial intelligence

- The advantages and disadvantages of applications of artificial intelligence in industry, government and other fields:
  - search engines
  - healthcare
  - automotive
  - financial service
  - transportation and logistics
  - agriculture
  - technology, media and telecommunications
  - e-commerce
  - policing and fraud detection
  - robotics
  - data mining
  - internet of things (IoT)
  - smart tech.

Learning outcome B: Explore machine learning and neural networks

Data

- Data types and structures, to include: arrays, linked-list, binary tree.
- Manipulating data:
  - data preparation
  - data wrangling.
- Data protection, to include: functional, legal and ethical.
Machine learning

- Models, to include: decision tree, linear regression, logistic regression.
- Machine learning algorithms, to include: supervised learning, unsupervised learning and reinforcement learning.
- Machine learning techniques, to include: clustering, reinforcement learning, transfer learning, and association.

Neural networks

- The basic principles of essential mathematics relating to neural networks, to include:
  - sigmoid curves and neurons
  - dot products

Learning outcome C: Develop an artificial intelligence solution

Building an artificial intelligence solution

- Preparation and decision making required to build an artificial intelligence solution to include:
  - identifying the problem
  - programming structures:
    - programming language and Integrated Development Environment (IDE).
    - classes
    - libraries
    - functions
  - data preparation
  - algorithm choice
  - training and creation
  - platform design.

Testing an artificial intelligence solution

- Strategies for testing artificial intelligence solutions.
- Methods of testing, e.g. algorithm, integration, regression testing.
UNIT 1: ARTIFICIAL INTELLIGENCE FUNDAMENTALS

Essential information for assessors

Essential resources

The specialist resources needed for this unit are:

- access to a software development sandbox.

Suggested assessment approach

This section must be read in conjunction with Section 6: Assessment.

This unit is assessed internally by the centre and externally verified by Pearson.

The table below shows the suggested approach to assessments.

The assessment for this unit should be set in a specific organisational context, it should draw on learning from the unit, and be designed in a way that enables learners to meet all the assessment criteria.

<table>
<thead>
<tr>
<th>Learning outcome</th>
<th>Suggested assessment approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Understand artificial intelligence fundamentals</td>
<td>A report for a manager on the main elements of artificial intelligence and how AI could prove useful for the business.</td>
</tr>
<tr>
<td>B Explore machine learning and neural networks</td>
<td>Development of a report to review the types of machine learning and how they could best be applied to a project.</td>
</tr>
<tr>
<td>C Develop an artificial intelligence solution</td>
<td>Develop an AI programme for a specified purpose.</td>
</tr>
</tbody>
</table>

Assessment requirements

Learning outcome A

To achieve A.1, learners must demonstrate an understanding of the principles of AI, and how these could be used in the development of business practices.

To achieve A2, learners must demonstrate an understanding of the applications of artificial intelligence across at least two industries.

Learning outcome B

To achieve B.1, learners must examine the main elements of machine learning and demonstrate a sound understanding of those aspects listed in the unit content.

To achieve B2 and B3, learners must draw on knowledge across the learning outcome to produce an in-depth examination of the approaches to AI and neural networking, including reasoned consideration of the importance of data management. They must cover types of technology, and the types of network, as well as the classification elements in how AIs are created, and the appropriate way to develop them.
Learning outcome C

To achieve C.1, learners will use an appropriate programming language to develop an AI solution for a given problem.

To achieve C2, learners must show that they have tested the AI programme to make sure it meets identified requirements. Learners must demonstrate that they have refined the AI programme as a result of testing that they carried out.

To achieve C.3, learners must draw on knowledge across the learning outcome to produce an in-depth analysis and review of the effectiveness of the AI programme for the given problem.
5 Programme delivery

Centres are free to offer these qualifications using any mode of delivery that meets learners’ needs. This might include full-time or part-time direct instruction in classrooms, distance learning, and directed self-study.

Centres must make sure that learners have access to the identified resources and to the subject specialists delivering the units.

Those planning the programme should aim to enhance the vocational nature of the qualification(s) by:

- developing up-to-date and relevant teaching materials that make use of scenarios or case studies that are relevant to the sector
- giving learners the opportunity to apply their learning in realistic practical activities, for example creating business documentation or performing role plays
- developing projects with input from employers

Where legislation is taught, centres must ensure that it is current and up to date.

Learning Hub

Comprehensive digital learning content for this programme is available on the Pearson Learning Hub. This online and mobile-optimised platform provides high-quality, bite-sized digital content for an accessible, interactive learning experience, including:

- infographics with images and texts to engage learners
- interactive quizzes
- video resources that exemplify key concepts.

To support the delivery of the Pearson BTEC International Level 3 Specialist Award in Artificial Intelligence Fundamentals, see the Learning Hub course: Artificial Intelligence De-mystified.

6 Assessment

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

Internal assessment

All units in this qualification are internally assessed. This means that centres set and mark the assessments, which are then subject to external standards verification by a Pearson standards verifier.

Assessment using assignments

For all units, the format of assessment is an assignment taken after the content of the unit has been delivered. An assignment may take a variety of forms, including practical and written. Assignments are separate from teaching, practice, and other activities that learners complete with input from teachers. Assignments must be completed independently by learners, which means they work on their own without input from other learners or teachers.

An assignment needs to be issued to learners as an assignment brief that includes a start date, a completion date and clear requirements for the evidence that they need to provide. Assignments should be set within a specific organisational context. Assignments can be divided into tasks and may require several forms of evidence, including written tasks and observations.

Teachers will set the assignments. These must allow learners to generate the evidence required to meet the assessment criteria and the Essential information for assessors for the unit.

Issuing assessment decisions and feedback

Once the assessor 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 achievement of assessment criteria has not been demonstrated
- must not provide feedback on how to improve evidence
- must be validated by an internal verifier before it is given to the learner.

Resubmissions and retakes

Learners who do not successfully pass an assignment are allowed one opportunity to resubmit evidence for this assignment. If they still do not reach the required standard, they should be given one opportunity to retake a different assignment that covers the same learning outcome(s).
7 Administrative arrangements

Introduction
This section focuses on the administrative requirements for delivering a BTEC qualification. It is of particular value to Quality Nominees, Lead IVs and Programme Leaders.

Learner registration and entry
Shortly after learners start the programme of learning, you need to make sure that they are registered for the qualification. You need to refer to the International Information Manual for information on making registrations for the qualification.

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
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 their chosen progression opportunities.

Pearson’s 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 assessment

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

Reasonable adjustments to assessment
To ensure that learners have fair access to demonstrate the requirements of the assessments, a reasonable adjustment is one that is made before a learner is assessed. 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 allowing the use of assistive technology or adjusting the format of evidence. Any reasonable adjustment must reflect the normal learning or working practice of a learner in a centre or working within the occupational area. 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.

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 the document Enquiries and appeals about Pearson vocational qualifications and end point assessment policy.

Dealing with malpractice in assessment
Malpractice means acts that undermine the integrity and validity of assessment, the certification of qualifications and/or may damage the authority of those responsible for delivering the assessment and certification.
Pearson does not tolerate actual 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 malpractice or attempted malpractice has been proven.

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

The procedures we ask you to adopt vary between units that are internally assessed and those that are externally assessed.

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

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

**Learner malpractice**

The head of centre is required to report incidents of suspected learner malpractice that occur during Pearson qualifications. We ask centres to complete JCQ Form M1 (www.jcq.org.uk/malpractice) and email it with any accompanying documents (signed statements from the learner, invigilator, copies of evidence, etc.) to the Investigations Processing 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.

Failure to report malpractice constitutes staff or centre malpractice.
Teacher/centre malpractice

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

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

We reserve the right to withhold certification when undertaking investigations, audits and quality assurance 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, such as:

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

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

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

The centre will be notified if any of these apply.

Pearson has established procedures for centres that are considering appeals against penalties and sanctions arising from malpractice. Appeals against a decision made by Pearson will normally be accepted only from the head of centre (on behalf of learners and/or members or staff) and from individual members (in respect of a decision taken against them personally). Further information on appeals can be found in the JCQ Appeals booklet (https://www.jcq.org.uk/exams-office/appeals).
Certification and results

Once a learner has completed all the required components for a qualification, the centre can claim certification for the learner, provided that quality assurance has been successfully completed. For the relevant procedures, please refer to our *International Information Manual*.

Additional documents to support centre administration

As an approved centre, you must ensure that all staff delivering, assessing and administering the qualification have access to the following documentation. These documents are reviewed annually and are reissued if updates are required.

- *Pearson International 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.
- *International Information Manual*: this gives procedures for registering learners for qualifications, transferring registrations and claiming certificates.
- *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.

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 access to 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 and diversity legislation and/or regulations.
- Centres must have access to the specialist resources listed in the unit. These are summarised below:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Resources required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1: Artificial Intelligence Fundamentals</td>
<td>Access to a software development sandbox.</td>
</tr>
</tbody>
</table>

Continuing quality assurance and standards verification

On an annual basis, we produce the Pearson International Quality Assurance Handbook. It contains detailed guidance on the quality processes required to underpin 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; the centre must abide by these conditions throughout the period of delivery
- 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 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 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.