BTEC Level 2 Technical for Engineering


Built on BTEC’s tried-and-trusted ‘learn-by-doing’ approach, the new courses help post-16 learners stand out from the crowd with the skills they need to start and succeed in their careers. Employers and industry bodies have helped us design your BTEC Level 2 Technicals, so you have the content and approach to prepare learners for wherever their next steps may lead.

Introducing your BTEC Level 2 Technicals

Employment

Apprenticeship
Entry-level role

Further technical study
at level 3
Why employers back BTEC Level 2 Technicals

Employers and professional bodies back the new courses because learners...

- Cover vital industry knowledge employers say learners need within mandatory units.
- Specialise with optional units (where applicable).
- Draw on and apply all their learning to a real-life situation in the synoptic final unit.
- Focus on developing competency in key sector skills.
- Must achieve at least a Pass in every unit so they’re confident they’ve mastered the basics they need to succeed.
- Explore essential professional behaviours for the workplace.
- Have plenty of opportunities to engage with local employers, workplace-based activities, guest lectures and have practitioners setting and marking assignments.
- Showcase what they know and can do in different types of assessments based on real-life scenarios.
- Have evidence of applying what they know to tasks they’ll tackle every day in their chosen career.
- Explore essential professional behaviours for the workplace.
- Have plenty of opportunities to engage with local employers, workplace-based activities, guest lectures and have practitioners setting and marking assignments.
- Showcase what they know and can do in different types of assessments based on real-life scenarios.
- Have evidence of applying what they know to tasks they’ll tackle every day in their chosen career.

Your BTEC Level 2 Technicals at a glance
from September 2017

What are they?

- Level 2 courses in various sectors
- For post-16 learners
- Designed with input from tutors, employers and professional bodies
- Developed to meet performance measures in England

How do they work?

- BTEC’s tried-and-trusted ‘learn-by-doing approach’ means your learners

Where can they lead?

- Employment
- Apprenticeship
- Further technical study at level 3
We’ve designed BTEC Level 2 Technicals for Engineering so your learners can get set for success in their chosen field.

Explore the course...
Next steps for your learners...

Equipped with the skills, knowledge and experience to succeed in the Engineering sector, BTEC-qualified candidates can choose where they go next.

**Apprenticeship**

- Level 2 Apprenticeship in Advanced Manufacturing Engineering
- Level 3 study
  - Pearson BTEC Level 3 Extended Certificate in Engineering
  - Pearson BTEC Level 3 Foundation Diploma in Engineering

**Employment**

- Plant and Machine Operative
- Process Operative
- Routine Inspector and Tester
- Metal Working Machine Operative

**Level 3 study**

- Pearson BTEC Level 3 Diploma in Engineering

There are five mandatory units and four optional units in the qualification. Learners are required to complete and achieve all mandatory units and two optional units.

**Unit 1:** Engineering Principles
- 45 GLH
- On-screen test (external - set and marked by Pearson)

**Unit 2:** Processes and Materials
- 45 GLH
- On-screen test (external - set and marked by Pearson)

**Unit 3:** Business Improvement Techniques
- 30 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 4:** Workshop Skills
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 5:** Machining Techniques
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 6:** PCB Components and Soldering
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 7:** Computer Numerical Control
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 8:** Electrical Components and Wiring
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

**Unit 9:** Delivering Engineering Solutions
- 60 GLH
- Practical assignment (internal - set and marked by your centre)

Supported by DP World, HVMS, Wilson Tool International and The Institution of Engineering and Technology

Like what you see? There’s more to explore...

- Specification [quals.pearson.com/BTECLevel2TechnicalEngGuide]
- More courses [quals.pearson.com/BTECLevel2TechnicalEngGuide]
- Assessment See page 10
- Support See page 12


98
**How assessment works**

The combination of assessment types for BTEC Level 2 Technicals means your learners can draw on and apply all their knowledge and skills to realistic time-based tasks they'll also encounter in the workplace.

- The well-known BTEC assessment style.
- Resubmission of evidence (to improve grade) may be allowed within 15 days of learners receiving their original grade.
- If a submission or resubmission is not passed, one retake of a new assignment capped at Pass level may be allowed.

**Assignments**

Set and marked by you (internal assessment)

- A range of question types (including multiple-choice and short-answer questions) taken in controlled conditions. Available on demand from January 2018.
- One resit is allowed.

**On-screen test**

Set and marked by Pearson (external assessment)

- The well-known BTEC assessment style.
- Resubmission of evidence (to improve grade) may be allowed within 15 days of learners receiving their original grade.
- If a submission or resubmission is not passed, one retake of a new assignment capped at Pass level may be allowed.

**How grading works**

A learner's final grade reflects their achievements across all units in their BTEC Level 2 Technical course.

- Every unit is individually graded as Pass, Merit or Distinction and this grade is then converted to a point score.
- The total points scored across all units make up the final qualification grade.
- To achieve an overall qualification grade, learners must gain at least a Pass grade in all units. This means that tutors and employers can be confident that learners have understood and mastered the key technical and transferable skills, and industry knowledge to progress with their next steps.

**Example of qualification grade calculation for BTEC Level 2 Technicals**

<table>
<thead>
<tr>
<th>Unit</th>
<th>GLH</th>
<th>Type</th>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>60</td>
<td>External</td>
<td>Merit</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>60</td>
<td>External</td>
<td>Merit</td>
<td>24</td>
</tr>
<tr>
<td>3</td>
<td>60</td>
<td>Internal</td>
<td>Distinction</td>
<td>32</td>
</tr>
<tr>
<td>4</td>
<td>60</td>
<td>Internal</td>
<td>Distinction</td>
<td>32</td>
</tr>
<tr>
<td>5</td>
<td>60</td>
<td>Internal</td>
<td>Distinction</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>60</td>
<td>Internal</td>
<td>Distinction</td>
<td>32</td>
</tr>
</tbody>
</table>

Calculation of qualification grade table

Example: The learner has sufficient points for a DD grade.

Note: Assessments will vary for each course. See your specifications for more assessment details.
To help you and your learners every step of the way, we’re developing the course materials you need and more of what you’ve told us you value most.

Whether you’re an experienced BTEC tutor or are new to the suite, there’ll soon be free content and published resources* to help you plan, teach and prepare for assessment, as well as training events to get you set for the new courses.

Your Subject Advisors, are here to answer your queries about the new courses:

TeachingEngineering@pearson.com
020 7010 2170

* You don’t need to buy published resources from Pearson to deliver the qualifications.

There are also published resources for the new BTEC Level 2 Technicals*

- Skills and Knowledge Handbooks from Pearson
  - Print and digital (ActiveBook) versions coming soon!

quals.pearson.com/BTECL2TechnicalsGuide

* You don’t need to buy published resources from Pearson to deliver the qualifications.

---

To plan, get to know your courses.

To teach, support for teaching and learning.

To assess, progress monitoring and preparation for assessments.

To develop, training to help you make the most of your courses.

There are also published resources for the new BTEC Level 2 Technicals*

- Skills and Knowledge Handbooks from Pearson
  - Print and digital (ActiveBook) versions coming soon!

quals.pearson.com/BTECL2TechnicalsGuide

* You don’t need to buy published resources from Pearson to deliver the qualifications.
Next steps

Like what you see?
- Explore the specifications and sample assessment materials
  quals.pearson.com/BTECL2TechnicalsEngGuide

Be the first to know the latest news!
- Sign up for email updates at:
  quals.pearson.com/BTECL2TechnicalsUpdateGuide
- Follow us:
  @teachBTEC

Ask away...
- If you’ve got any questions about the new courses, your Subject Advisors are here to help:
  TeachingEngineering@pearson.com
  020 7010 2170

Like what you see?
quals.pearson.com/BTECL2TechnicalsGuide