Real skills **for the real world**

BTEC

A centre guide to Pearson's BTEC qualifications in **Engineering**

ALWAYS LEARNING

PEARSON

Real skills for the real world

Over the last 30 years, Pearson's BTEC qualifications have helped people across the globe develop the skills they need to achieve their education and career goals. Engaging and inspiring, these work-related qualifications are suitable for a wide range of ages and abilities. Our practical learning focuses students' minds and helps to show how theory works in real life.

Pearson's BTEC qualifications in Engineering are amongst our most popular qualifications. They have been designed to not only equip students with in-depth technical knowledge of business, but also to develop real world skills which they can transfer to the workplace or higher education.

Students learn best when they can apply their own knowledge, skills and enthusiasm to a subject. The flexibility of BTEC qualifications enables centres to tailor content to the career direction of their students and deliver a world-class learning experience.

A modular approach to learning

The structure of BTEC qualifications in Engineering is designed to adapt to the needs of students and to meet the requirements of employers. Each qualification is made up of **core units**, which provide a broad introduction and help students gain the essential knowledge of the subject area; and **specialist units**, which build expertise in specific areas relevant to students' needs.

When designing a programme to suit your students, you have two options for specialisation:

Specialist units

You can select specialist units from the same qualification and level of study, combining level and credit values as defined by the Rules of Combination.

*see BTEC specifications

1 Core units

2 Meeting student needs

Many of our qualifications allow you to select units from other accredited BTEC qualifications, provided they meet the Rules of Combination, regarding credit value and level.

*see BTEC specifications

Teaching in ways your students will love

BTEC qualifications are uniquely placed to provide a blended approach to learning, underpinning academic achievement with practical real work examples. The modular approach to the course gives you scope to be more creative in your teaching and adapt the course delivery accordingly.

Recognising student success

BTEC qualifications that have been designed for progression to higher education are graded to enable your brightest students to achieve their university ambitions or to progress directly into employment. Whereas our work-related specialist BTEC qualifications have been designed to demonstrate a level of technical knowledge in a work related activity - resulting in increased job opportunities.

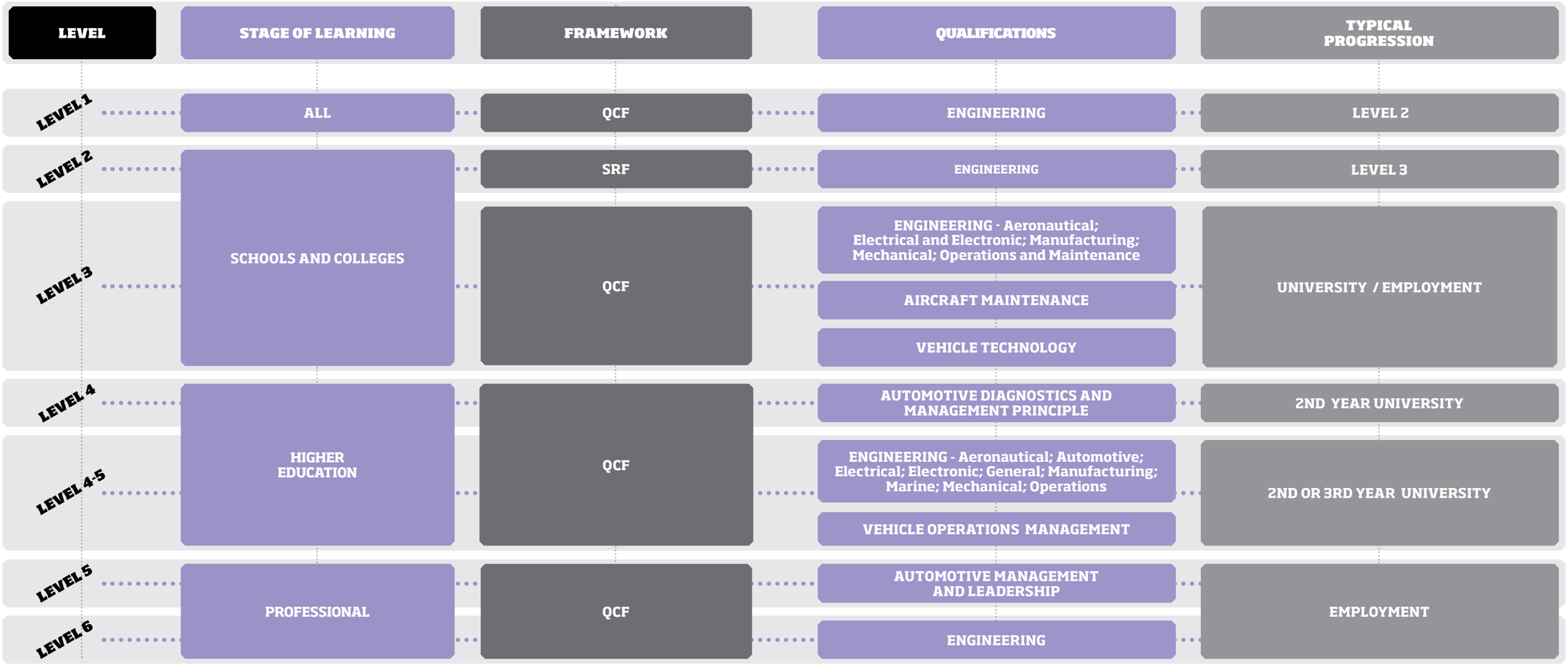
Giving students options

The world of education is changing and the flexibility of BTEC qualifications gives our BTEC learners across the world the opportunity to study part-time to aid their career progression, or follow a traditional full-time study pathway that leads to university and employment.

Wide-ranging and wide-reaching

BTECs are available from entry level (beginner) through to level 5 (equivalent to the first 2 years of university study). This gives students the opportunity to choose the right level for their requirements or steadily work their way through all levels, acquiring new skills and certificates at every stage.

Here is a snapshot of the options available for teaching BTEC qualifications in Engineering:



* Based on UK degree system - each University will make their own entry requirements.

**Visit qualifications.pearson.com/engineering

Continue to deliver our BTEC Level 3 Nationals (2010) qualifications with confidence

We regularly review all our qualifications to ensure they continue to meet the needs of learners in helping them progress to the next stage of their lives, whether into further education or employment. In 2014, we began a review of our BTEC Level 3 National (2010) qualifications, in light of new UK government recommendations for vocational qualifications.

As a result of our consultation with educators and key stakeholders, we are pleased to announce an extension to the last registration date for our existing BTEC Level 3 Nationals (2010) Engineering qualifications to 31 December 2017, allowing student registrations until the end of December 2017 with a last certification date of 31 December 2020. This means that you can continue to register learners onto these qualifications with confidence up until 31 December 2017. BTEC Level 3 Nationals (2010) will also continue to attract UCAS points and provide a clear progression pathway to Higher Education.

Where will BTEC take your students?

After completing their BTEC in Engineering, students can progress to:

- **University** – 95% of UK universities and 200 universities worldwide (including many from *The Times* Top 100 Universities) accept BTEC. Visit our degree course finder to see the latest UK and international universities, which accept our BTEC qualifications: degreecoursefinder.pearson.com
- **Employment** – many leading companies such as Shell, Rolls-Royce, BAE Systems and Dyson actively recruit BTEC in Engineering students.
- **Set up a business** – BTEC students can apply the entrepreneurial skills they've developed as part of their learning to set up their own company.

Whichever progression route your students decide to take, they can be confident that the skills and knowledge that they've acquired during their BTEC qualifications, can be seamlessly applied to university or the workplace.

Here is just a small selection of the careers that our BTEC learners have progressed onto:

For a flexible future

Employer case study:
FlyBe's Aircraft Maintenance Engineer Programme

Flybe - Europe's largest and most successful regional airline - has been training aircraft apprentices for over 25 years.

However the introduction of new legislation gave them the opportunity to develop a programme to train aircraft maintenance engineers in order to meet future demand for appropriately qualified and skilled engineers.

They worked with Pearson to develop new BTEC units to meet EASA Part 66 requirements, ensuring that they continue to provide the highest level of aircraft maintenance.

Student case study:
Fridah Nzaba
BTEC level 3 National Subsidiary Diploma in Engineering

Fridah achieved a Distinction in her BTEC level 2 First Diploma in Engineering and went on to study a BTEC level 3 National Subsidiary Diploma in Engineering alongside her A levels in Physics, Maths and Business Studies.

Fridah's proactive thinking and outstanding grades led her to secure high-quality employment in engineering on Rolls-Royce Aerospace's Higher Apprenticeship scheme.

Support for everyone

We understand that delivering BTEC qualifications takes time and careful planning and our fully supported training and resources make teaching these qualifications as rewarding as studying them.

Each of our BTEC qualifications comes with a detailed specification outlining the qualification's objective; prior knowledge or skills that are required; units that must complete before the qualification is awarded; method of assessment; and performance criteria. To view the specifications for BTECs in Engineering, please visit: qualifications.pearson.com/engineering

Below are some support services* that are available for BTEC qualifications:

1 DELIVERY GUIDES

Helping you achieve best practice in delivery and assessment. Contains unit-by-unit guidance on how to meet and exceed specification requirements.

2 STUDY SKILLS GUIDE

Indispensable guides for your students. Covers fundamental skills like study planning, research, assignment writing and avoiding plagiarism, preparing them to study at Higher National level and beyond.

3 SAMPLE ASSIGNMENT BRIEFS

We've created these handy templates to help you create assignments which are effective, easy to understand and meet specification requirements. We also provide examples of assignment briefs.

4 ASSIGNMENT CHECKING SERVICE

Get an expert review on two proposed assignments, per level, per subject, at the start of the teaching period.**

5 ASK THE EXPERT

Access our interactive, online portal to find answers to common questions, or to ask your own specific question.

6 SUBJECT ADVISORS

Our Subject Advisors are available by email and phone to support your requirements.

7 PROGRESSION SUPPORT

Progression Plus

Students can learn about the global study opportunities open to them once they have gained their BTEC Higher National qualification by using our online Degree Course Finder tool: degreecoursefinder.pearson.com

8 TRAINING SOLUTIONS

Choose from a range of practical, hands-on events designed to help those actually delivering the qualifications.

For centres with very specific needs, we can also design bespoke programmes.

* This is a selection of the support we can offer, but please visit our website to find out what support is available for your chosen qualification.
** Not available for Higher Nationals

“I always wanted to be in the mechanical engineering field... it was equal to two A-Levels and it was just as easy to access my Bachelors’ degree and also good for my future skills.”

Sayed Yasir Said Safiullah, Afghanistan
BTEC Higher National Extended Diploma in Mechanical Engineering

Start teaching BTEC in Engineering

If you're already a BTEC approved centre, simply contact your local regional office to undertake the relevant paperwork.

For new centres you can get approved to offer BTEC qualifications in two simple steps:

1. **Approval Process:** Your local Pearson representative will visit you to discuss your specific requirements and assist you with completing an approval form.

2. **Staff Training:** We offer implementation training which includes both general teaching skills and subject specific content, adapted to your needs.

Set your centre apart with qualifications that engage and inspire students.

Learn more:
Contact your local Pearson representative at:
qualifications.pearson.com/contactus

Or visit:
qualifications.pearson.com/BTEC