



Oxford Cambridge and RSA

Statement of purpose

Who is the **OCR Level 2 Cambridge Technical Diploma in Engineering** for?

Overview

This qualification is for you if you are 16 years old or over and want to specialise in engineering. This vocational qualification will help you to progress onto an engineering-related apprenticeship or employment within the engineering sector. Typical Level 2 and Level 3 apprenticeship opportunities in engineering include roles such as Metal Working and Machine Operatives, Quality Control (batch work), CNC Operator, Maintenance Operative Process Operator, Electrical Maintenance, Electronic Circuit Testing, Design and Draughting. This qualification will also allow you to progress onto a qualification in the same subject area at a higher level such as a Level 3 Technical Level qualification.

You would take the 360glh if you want to learn about a specific sector such as Design Engineering, Production Engineering or Systems Engineering. The 360glh is likely to be taken alongside other programmes such as vocational qualifications or A levels over a one-year course of study. The 360glh would form the substantive part of your studies.

We have worked with leading employers who have helped us include the transferable knowledge, understanding and skills that they are looking for, such as:

- The underpinning and foundation knowledge of engineering.
- The ability to apply the underpinning and foundation knowledge of engineering. These fundamental principles provide the foundation for practical application of this knowledge.

What does this qualification cover?

Everyone will be required to take 5 units on:

- Engineering fundamentals
- Applications of engineering principles
- Mechanical engineering - machine operations
- Electrical, electronic engineering - operations and application
- Engineering systems control - operations and application

You will need to take a further unit which will form one of three different pathways:

Design Engineering pathway

- Develop and present engineering 2D and 3D design solutions

Production Engineering pathway

- Product manufacture and fabrication

Systems Engineering pathway

- Optimise performance in engineering systems

What could this qualification lead to?

This qualification is part of a suite of Cambridge Technicals in Engineering at Levels 2 and 3. Normally, you would choose one of the OCR Level 2 Cambridge Technicals in Engineering qualifications because you are aged 16 years plus, are in full-time education, but aren't quite ready to study a Level 3 qualification in this sector at this stage.

This Diploma is the largest of the qualifications in this suite. As you will be taking more units it will enable you to increase the breadth and depth of your knowledge, skills and understanding in your chosen pathway which could lead to relevant employment.

There are two sizes of qualification available in the Level 2 Cambridge Technicals in Engineering suite:

- OCR Level 2 Cambridge Technical Certificate in Engineering 180glh
- OCR Level 2 Cambridge Technical Diploma in Engineering 360glh

This Certificate can be taken in one year. The qualification will provide the subject specific skills, knowledge and understanding and a range of transferable skills that you will require for employment in engineering roles. The Certificate will provide you with the flexibility to achieve other qualifications in your study programme, whether vocational or academic and support you onto employment, either directly or through an apprenticeship.

Who supports this qualification?

The following employers support this qualification:

- Jaguar Land Rover
- Festo
- Siemens
- JCB
- Society of Operations Engineers

Details of this support can be found on the OCR website:

<http://www.ocr.org.uk/qualifications/by-type/vocational-education-and-skills/performance-table-information/>

Further information

To find out more about the OCR Level 3 Cambridge Technical Extended Diploma in Engineering please refer to the centre handbook available on the OCR website.

If you have any other queries please contact vocational.qualifications@ocr.org.uk

About us

OCR is a leading UK awarding body. We provide qualifications which engage people of all ages and abilities at school, college, in work or through part-time learning programmes.

Our general and vocational qualifications equip you with the knowledge and skills needed for the future, helping you to achieve your full potential.