

The Edexcel Engineering Diploma

This qualification introduces you to a range of vibrant engineering sectors. You'll discover the 'how and why' of different engineering processes, systems and structures.

You'll examine design, manufacture, maintenance, installation and commissioning, instrumentation and control, technical support, aeronautical, automotive, chemical, electrical/electronic, mechanical, and passenger transport.

You'll learn about:

- The engineering world
- Discovering engineering technology
- Engineering into the future
- Analytical methods for engineering (Level 3 only).

Random week at a glance...

Mon: Saw Boyle & Sons cutting processes thermal/laser/water jet/plasma/oxy-fuel.

Tues: Career progression skills.

Wed: Took toaster apart to reassemble in class next week!

Thurs: Group research on how Nissan uses computers on the production line.

Fri: Used spot-welder to attach the pedal on my prototype bin.

I could be a...

Chemical Engineer
Civil Engineer
Health & Safety Adviser
Maintenance Engineer
Mechanical Engineer
Project Manager

Site Engineer
Structural Engineer
Technician
Water and Environmental Manager

Level 1 1st term snapshot

- Gave team PowerPoint presentation on the impact of engineering on modern life.
- Used CAD to draw a 2D component and electrical circuit.
- Visited recycling plant to see what happens to a PC, glass bottle and plastic bag.



Level 2 1st term snapshot

- Prepared product design specification for baby's car seat.
- Selected components for our team's automatic pencil sharpener.
- Practiced quality control techniques, checking dimensions, tolerances, fit, finish and performance.



Level 3 1st term snapshot

- Investigated costing techniques on the success of engineering businesses.
- Used design software to create a 3D model for a presentation drawing.
- Worked on designing two new product features to improve a memory stick.

