



# Cambridge National ENGINEERING DESIGN\*

## Level 2 Certificate

### Examination Board:

OCR

### Assessment:

Examination 25%

Coursework 75%



### What Will You Learn?

Engineering Design is a process used to develop and enhance new products and systems as a response to market opportunities. This qualification is an opportunity to:-

- To develop a design specification and study the processes involved in designing new engineered products.
- Use practical skills such as drawing, computer modelling and model making to communicate design ideas.
- Consult with a client and, with a practical focus.
- How to produce, test and evaluate a prototype in the form of a model.

There are four mandatory units each worth 25%.

Mandatory units:

- R105: Design briefs, design specifications and user requirements. Written paper OCR set and marked 1 hour – 60 marks. Students answer all questions
- R106: Product analysis and research. Centre-assessed task, OCR moderated.
- R107: Developing and presenting engineering designs. Centre-assessed task, OCR moderated.
- R108: 3D design realisation

### Who Is This Course For?

- If you are creative, enjoy solving problems and have a flair for design
- If you enjoy practical work and using different materials such as wood, metal or plastic.
- If you are interested in a future career in Architecture, Construction, Built Environment, Surveyor, Civil Engineering, Automotive Engineering and Industrial Design.
- If you like working to different project briefs to suit different clients

### **What Happens When You Finish? (Career Pathway)**

Learners who achieve this qualification could progress onto further Level 3 qualifications or A-Levels, such as:

- Level 3 vocational qualifications, such as Cambridge Technicals in Engineering.
- Academic qualifications, such as A-Level in Product Design, Graphics, Resistant Materials.
- Apprenticeships within the Manufacturing Industry and Engineering Industry.