



### What will I learn?

This course will help you learn about:-

- The range of job opportunities and types of companies you could work for locally and nationally.
- What it would be like to work in engineering.
- How to use drawings and specifications to manufacture components using traditional machining equipment (lathes, milling machines, surface grinders and drilling machines).
- How to use drawings and specifications to write CNC part programs, (instructions that a computer controlled machine uses), to produce components on a range of CNC machines.
- How to check the accuracy of components.
- About Health and Safety Law and environmental issues in the workplace.

### How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai and is the equivalent of 2 GCSEs. Your school will arrange free transport to and from Coleg Menai and you will spend 3 hours a week in Year 10 and 11 at the Bangor site. Site visits and experience with major local employers will also be organised. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do. **Mathematics is an integral and essential part of this course.**

### What will I need?

Students will be required to wear suitable Personal Protective Equipment (PPE) whilst in the workshops, (eg safety boots and overalls) which will be provided by Coleg Menai.

### How will I be assessed?

You will produce work which is assessed by your course tutor and the examination board and there will be two external examinations, one being for the core unit.

### What happens after this course?

At the end of this course here are some of the pathways available:-

- Follow a mix of vocational and academic courses as part of a school / Coleg Menai partnership, eg. Level 3 BTEC Certificate / Subsidiary Diploma / AS / A level.
- Follow an Engineering qualification at level 2 or 3 at Coleg Menai. eg. Level 2 BTEC Diploma, Level 3 BTEC Subsidiary Diploma, Diploma or Extended Diploma.
- Follow an NVQ qualification in a related sector at level 2 or 3 at Coleg Menai. eg. NVQ Performing Engineering Operations.
- Follow a modern apprenticeship scheme.

Ultimately degrees and professional qualifications can be achieved by following any of these pathways.

### Career Ideas!

- Professional Engineer
- Engineering Team Leader
- Design Engineer

### Want to know more?

To find out more about this course, visit the following web page: <http://qualifications.pearson.com/en/qualifications/btec-firsts/engineering-2012-nqf.html>

# Engineering (Level 2) (BTEC Level 2 First Certificate in Engineering)

Or contact: [www.careerswales.com](http://www.careerswales.com)