

Subject Title:	LEVEL 3 SUBSIDIARY DIPLOMA IN ENGINEERING
Type of Qualification:	BTEC
Examination Board:	Pearson
Location:	SERC
Subject Leader:	SERC Staff



Entry Requirements

5 GCSE's at grade C (including Maths)

What will I learn?

Engineering is a fun, interactive subject that combines a broad base of technical skills and knowledge that will enable progression to Higher Education and ultimately provide opportunities for employment in Northern Ireland's vibrant manufacturing industry. The two-year course is equivalent to one A Level. Subjects studied include Mechanical Principles, Mathematics, CAD Electronics, Fabrication Processes

What skills will I develop?

You will develop a broad range of transferable skills. You will be given opportunities to:

- Demonstrate practical and technical skills using appropriate processes, devices, components, equipment, materials, consumables
- Complete realistic tasks to meet specific briefs or particular purposes
- Write up the findings of your own research
- Use case studies to explore complex or unfamiliar situations
- Carry out projects for which you have choice over the direction and outcomes

Assessment

Assessment is specifically designed to fit the purpose and objective of the qualification. It includes a range of assessment types and styles suited to vocational qualifications in the sector. There are three main forms of assessment that you need to be aware of: external, internal and synoptic.

Externally-Assessed Units

Each external assessment for a BTEC National is linked to a specific unit. All of the units developed for external assessment are of 90 or 120 GLH to allow learners to demonstrate breadth and depth of achievement. Each assessment is taken under specified conditions, then marked by Pearson and a grade awarded. The styles of external assessment used for qualifications in Engineering are:

- examinations – all learners take the same assessment at the same time, normally with a written outcome
- set tasks – learners take the assessment during a defined window and demonstrate understanding through completion of a vocational task.

Some external assessments include a period of preparation using set information.

Internally-Assessed Units

Most units in the sector are internally assessed and subject to external standards verification.

Synoptic Assessment

Synoptic assessment requires learners to demonstrate that they can identify and use effectively, in an integrated way, an appropriate selection of skills, techniques, concepts, theories and knowledge from across the whole sector as relevant to a key task using scenarios and realistic activities that will permit learners to draw on and apply their. The synoptic assessment gives learners an opportunity to independently select and apply learning from across their programmes in the completion of a vocational task.

Career Progression

Careers in Engineering can be found in a wide range of sectors such as Manufacturing, Aerospace, Biomedical & Renewables. Have a look at the following site for some examples: http://www.prospects.ac.uk/types_of_jobs_engineering.htm. With this engineering qualification you can progress to Higher Education (Foundation Degree, Degree), Employment or Training.