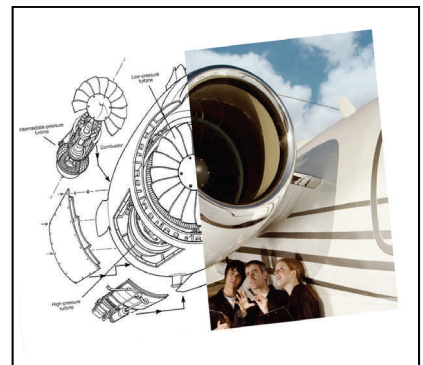


Brief Course description

The Advanced Diploma in Engineering introduces key themes related to the Engineering industry. You will learn what the Engineering world is all about and examine the different opportunities it has to offer. As well as understanding the theory behind its many facets, you will learn practical skills and develop an ability to solve problems and work as part of a team. The course will open up a wide range of educational, training and career opportunities. You will also develop your English, Maths and ICT skills to a high standard.

You should consider this course if you would like:

- An alternative to an A Level programme
 - A large qualification with a variety of units
 - A course with practical and theoretical applications
 - A broad understanding of the Engineering industry
 - A good progression route to higher level courses, including degrees
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- A course supported by industry and Higher Education
 - A course with good employment prospects
 - Experience of Further Education
 - A significant amount of work experience



The Advanced Diploma in Engineering is equivalent to 3.5 GCE A levels.

What will I learn?

You will study and experience the following **Principal Learning** topics:

- Engineering and the business environment
- Applications of computer aided designing
- Selection and application of engineering materials
- Instrumentation and control engineering
- Maintaining engineering systems and products
- Production and manufacturing
- Mathematical techniques and applications for engineers
- Scientific principles and applications for engineers

Generic Learning – Here you will develop your skills in English, Maths and ICT (Functional skills) to a high level. You will also develop your personal learning and thinking skills (PLTS) and complete a project which demonstrates your skills and knowledge of the subject, for example, investigating the Engineering industry through visits to employers, and working as part of a team in a realistic working environment. You will also be given the opportunity to study **additional, specialist subjects** to further extend the scope of your programme. This may include an A Level subject.

Where will I learn?

You will study both at school, and College and South Leicestershire's Skills Centre when it is complete. Also you will take part in visits to Engineering companies.

You will be required to take part in a minimum of 10 days of work experience with an Engineering employer, where you will gain valuable additional skills and knowledge, including interpersonal skills.

How will I be taught?

You will have opportunities to experience different styles of learning in different environments and with an emphasis on work related learning. Employers will set challenge projects and exercises that you will be able to complete individually or by working in a team.

How will I be assessed?

Most units will be assessed by your teachers and will be based on your practical, assignment and project work. Employers will also help to assess your work, particularly if they have set a project for you to complete. There will be two units where you will need to take an external test but the emphasis for the whole course is about continuous assessment by your teachers.

What can I do after this course?

The Advanced Diploma in Engineering is designed to broaden your horizons and give you a wide range of next step options. You may wish to take a Higher National Diploma or Foundation or First Degree course in Engineering, or a related area. Alternatively, you may wish to seek employment at supervisory level.

The Advanced Diploma in Engineering has been carefully designed to give you relevant transferable skills that will be welcomed by colleges, universities and employers.

What is this course "worth"?

The Advanced Diploma Engineering is equivalent to 3.5 GCE A levels.

Entry requirements/skills needed

To be successful on the course, it is recommended you have GCSE's in 5 subjects, including Maths and English, at grade C or above. Of course, successful achievement of the Higher Diploma in Engineering or equivalent qualification will be acceptable.

It is also very important that you have:

- A strong interest in engineering and its associated industries
- A good attendance and punctuality record
- A good behaviour record
- Good literacy and numeracy skills

Employer links?

You will have the opportunity to visit, and/or attend work placement at a number of local employers, including:

- BNS
- Thales
- Trelleborg
- GE sensors