

# Leicester City Diplomas

## The Higher Diploma in Engineering



### Brief Course description

The diploma in engineering introduces the key themes of engineering and will give an understanding of basic engineering principles. You will learn what engineering is all about and examine the different opportunities it has to offer. As well as understanding the theory behind engineering you will learn practical skills and develop an ability to solve problems both individually and as part of a team. The course is relevant to modern engineering and will open up a wide range of educational, training and career opportunities.

### You should consider this course if you would like:

- An alternative to GCSE options.  
(You will still need to do some core GCSE's)
- A big qualification with a variety of units
- A course with practical and theoretical applications
- A broad understanding of Engineering
- A minimum of 10 days work experience
- A good progression route to higher level courses
- A course supported by industry and Higher Education
- A course with good employment prospects
- Experience of Further Education

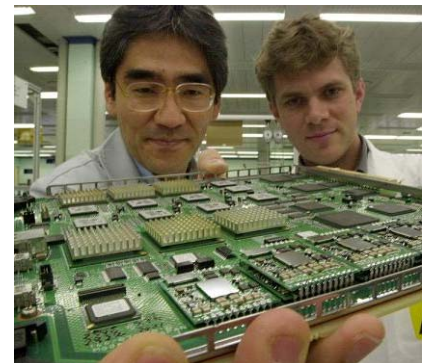


Higher Level is for those working at GCSE A\* - C

### What will I learn?

You will study and experience the following 8 Principal Learning topics:

- Exploring the Engineering World
- Investigating Engineering Design
- Engineering Application of Computers
- Producing Engineering Solutions
- Electrical and Electronic Circuits and Systems
- Application of Manufacturing Techniques in Engineering
- Application of Maintenance Techniques in Engineering
- Exploring Engineering Innovation, Enterprise and Technological Advancements



### Generic Learning

Here you will develop your skills in English, Maths and ICT. These are your Functional skills. 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, or you may design a car powered by electricity or solar energy, or design a water pump for use in a third world country. You will also be given the opportunity to study additional, specialist subjects, or take an additional GCSE part of your Programme.



### **Where will I learn?**

You will study both at school and at College. Also you will take part in visits to Engineering based organisations.

You will be required to take part in a minimum of 10 days of work experience at 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 practical work. Employers will set challenge projects and exercises that you will be able to complete individually and by working in groups to find solutions.

### **How will I be assessed?**

Most units will be assessed by your teachers and will be based on your practical, assignment and project based work. Employers will also help to assess your work particularly if they have set a project for you to complete. There will be one unit 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?**

Whatever level of diploma you study for at KS4, the diploma is designed to broaden your horizons and give you a wide range of next step options. There is an advanced level Engineering diploma at post 16 which is equal to 3.5 A levels. However you could progress onto an Apprenticeship, or A levels which may not be related to the Engineering Industry. A diploma does not mean you will be committed to a career in the Engineering industry as the diploma has been carefully designed to give you relevant transferable skills that will be welcomed by colleges, universities and employers.

### **What is this course “worth”?**

Level 2 is for those working towards GCSE A\* - C and is equivalent to 7 GCSEs A\* -C

### **Entry requirements/skills needed:**

It is also very important that you have:

- An interest in the Engineering industry
- A good attendance and punctuality record
- A good behaviour record
- Adequate literacy and numeracy skills

You will need to discuss with your teacher, which level of Diploma will be most appropriate for you. You will need to show that you have the potential to achieve at level 2, including functional Maths, English and ICT.

### **Employer links?**

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

- Leicester College

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