



Engineering

Our Engineering courses provide a strong base for both career and educational progression and are well respected throughout the industrial and academic worlds. You can study a Mechanical, Electrical or Electronic Engineering pathway.

Previous learners have progressed onto degrees, or found employment in managerial or technical positions within industry.

As a learner at Leicester College you will use state-of-the-art facilities at our new Technology and Engineering centre.

Karl wanted to further his engineering training. Although he knew he had the mechanical skills, he thought an educational background would help him secure jobs and progress further within industry.

He said: "The course gave me the confidence in my abilities to aim higher. As a result of taking the course, I've been given a great opportunity in a larger company, which will improve my engineering ability and open up further opportunities for me in more senior roles."

You will gain an understanding in core topics such as engineering systems, project management, analytical methods and engineering principles, along with professional skills that will place you in a competitive position in the job market.



Karl Goodwin,
Higher National Certificate/Diploma
in Mechanical Engineering.

Higher National Certificate in Engineering (Mechanical/Electrical)

The course is designed to enable engineers within full-time employment to continue their studies at a higher level whilst maintaining a career path.

Part-time

Course Code A0336
Course Starts September
Course Length Two years
Location Abbey Park Campus

To achieve a HNC, 10 unit credits are required, five mandatory and five optional units.

The five mandatory units are:

- analytical methods for engineers
- business management techniques
- engineering
- science project
- engineering principles.

Optional units:

- Mechanical**
- materials engineering
 - design for manufacture
 - advanced manufacturing techniques
 - programmable logic controllers
 - engineering design

Electrical/electronic

- electronics
- analogue and digital circuits plus devices
- operational amplifiers.

What do I need to start?

GCSE English C or equivalent (without this you will be asked to complete a Literacy test) plus either:

- Level 3 Edexcel (Nat Cert, C&G Part 3)
- Level 3 NVQ or similar in a related subject
- one A2/AS level
- relevant Access to HE course.

We welcome applications from learners with Advanced Apprenticeships and adult learners who do not match the standard entry requirements but who can demonstrate a willingness and commitment to studying this subject at level 4 and 5, and who can evidence academic, professional or vocational experience in a related field.

How long is the course?

Two years, part-time - one day a week.

How will I be assessed?

Assessment is continuous throughout the course.

What is the fee?

The fee is currently under evaluation and yet to be confirmed. Please call 0116 224 2240 for the latest fee information.

Who is the awarding body?

Edexcel.

What else do I need to know?

Guest lecturers contribute to this course. Formal visits to the Engineering sector or trade shows take place. It is anticipated that independently arranged visits of this nature will inform your coursework.

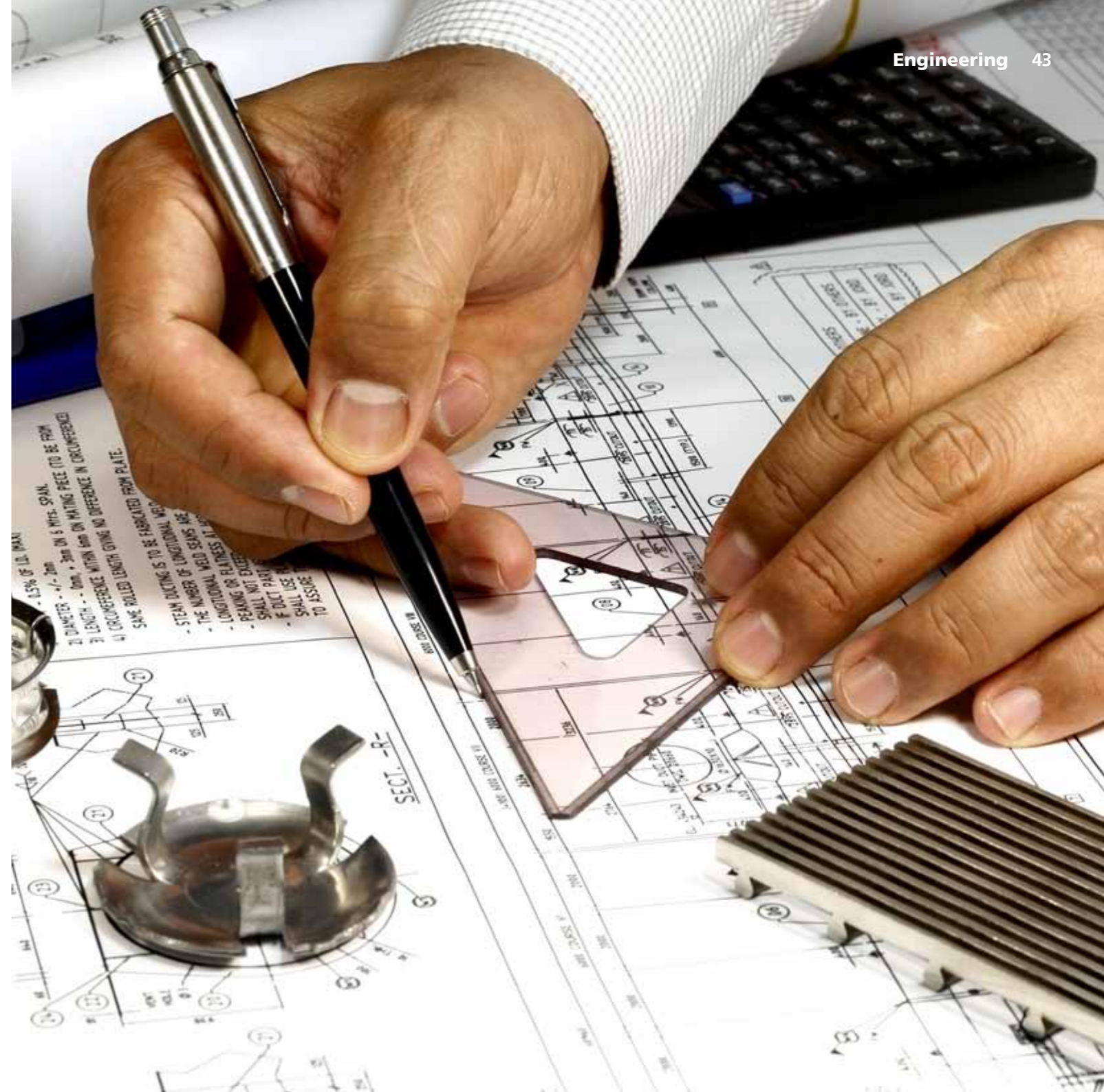
What can I do next?

You may opt to continue to a full degree programme or "top-up" to the HND in Engineering at the College. The HNC could provide exemption to the first year of a Degree.

Career opportunities could include managerial and technical positions in the Mechanical or Electrical sectors of the Engineering industry.

How do I apply?

Please apply to Leicester College. Call 0116 224 2240 for further information.



Higher National Diploma “top-up” in Engineering

This course is designed to enable engineers within full-time employment to continue their studies at a higher level whilst maintaining a career path.

Part-time

Course Code A0046
Course Starts September
Course Length One year
Location Abbey Park Campus

The course is designed to enable holders of a Higher National Certificate to achieve a full Higher National Diploma.

To achieve this, six further units are required. There are four common units and two optional units depending on your chosen pathway.

The four common units are:

- engineering systems
- applications of hydraulics and pneumatics
- mechatronic principles
- project management.

Optional units are:

- mechanical – CAD/CAM and manufacturing processes
- electrical/electronic – utilisation of electrical energy and control systems.

What do I need to start?

Basic higher level maths and science are fundamental.

The course is aimed at people who are able to commit to this type of study. You would normally be expected to have a HNC in a relevant subject.

We welcome applications from adult learners who do not match the standard entry requirements but who can demonstrate commitment to studying this subject at University level, and who can evidence academic or vocational experience in a related field.

How long is the course?

One year, part-time - two evenings a week.

How will I be assessed?

Assessment is continuous throughout the year.

What is the fee?

The fee is currently under evaluation and yet to be confirmed. Please call 0116 224 2240 for the latest fee information.

Who is the awarding body?

Edexcel.

What else do I need to know?

Personal study is expected.

What can I do next?

On successful completion of the course you may continue to a full degree programme. The HND should provide exemption to the first two years of a degree.

This qualification is well regarded throughout industry and the academic world. Career opportunities include managerial and technical positions in the Mechanical or Electrical sectors of the Engineering industry.

How do I apply?

Please apply to Leicester College. Call 0116 224 2240 for further information.

