

Electrical and Electronic Engineering HTQ Higher National Certificate

Course Overview

This two-year part-time Higher National Certificate (HNC) in Electrical and Electronic Engineering is designed for those looking to develop their engineering skills alongside work or other commitments. The course provides a strong foundation in electrical and electronic engineering, combining essential theory with practical application. You will study core engineering principles before progressing into specialist areas such as electrical systems, electronics and automation technologies. Throughout the course, you will apply your learning through project-based work and practical activities, ensuring you develop the skills needed for real engineering environments. This prepares you for progression into senior technical roles or further study. This flexible route is ideal for those already working in industry or looking to upskill. On completion, you can progress to the HND (Level 5) or apply your skills in a range of engineering roles across sectors such as manufacturing, energy and automation.

What you will learn

In Year 1, you will focus on core engineering fundamentals, including engineering design, mathematics, project work and manufacturing processes. These units provide the essential knowledge required to understand and apply engineering concepts. Learning is supported through practical activities and project work, allowing you to develop problem-solving, teamwork and communication skills. By the end of the course, you will be equipped to progress to higher-level study or enter employment in the engineering sector.

In Year 2, you will develop specialist knowledge in electrical and electronic engineering, including electrical principles, automation, robotics and programmable logic controllers (PLCs), as well as electrical machines and quality improvement.

Entry Requirements

Standard entry to this course requires a recognised Level 3 qualification in a relevant subject, such as a T Level, BTEC National or A Levels. Applicants with a higher-level qualification in an unrelated subject area may also be considered. You are expected to have GCSE English and Mathematics at Grade 4 (C) or above, or an equivalent qualification. We welcome applications from individuals who may not meet the standard entry requirements but can demonstrate the ability to study at Level 4 and have relevant experience. All applicants will be invited to attend an interview to assess suitability and prior achievement.

Course Fees

For certain practical activities, you may be required to provide your own personal protective equipment (PPE).

Course Progression

This course provides a clear pathway into both further study and employment within the engineering sector. On successful completion of the Higher National Certificate (Level 4), you can progress to the Higher National Diploma (Level 5) in your chosen engineering specialism, further developing your technical knowledge and skills. You may also choose to enter employment, with opportunities across industries such as manufacturing, energy, aerospace, automotive and automation. Typical roles include engineering technician, maintenance engineer or junior design engineer. The course is designed to equip you with the knowledge, practical skills and professional behaviours required to support your progression within the engineering industry.

What Happens Next

Step 1: Search for vacancies on UCAS using the course code H001 or apply through Leicester College Website using codes P00272 (FT) or P00271(PT). Step 2: Once submitted, your application will be reviewed by our Higher Education Team. Step 3: If your application is shortlisted, you will receive a conditional offer. Alternatively, we may contact you by phone or email to discuss your application and request any additional information if required. Step 4: Once you have met the conditions of your offer, typically in the summer prior to the course start date, you will be invited to attend the college. This will allow us to verify your certificates and complete the enrolment process. Step 5: After completing enrolment your Higher Education journey will officially begin with us.

Course Details

Course Code	P00271
Start Date	23/09/2027
Study Hours	Part Time
Duration	2 years
Campus	Abbey Park Campus
Level	4

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