

Aeronautical Engineering HTQ Higher National Certificate

Course Overview

This is a one-year full-time programme, in which a Higher National Certificate (HTQ) is completed. With a career in engineering as your chosen route, this level 4 course offers students wishing to follow an electrical/electronic engineering pathway, both the higher level knowledge and also the understanding of how this is applied in industry. The HNC/HND in engineering course is designed to enable students who may have come through a vocational route to progress into higher education, building on the knowledge gained at level 3. Higher Technical Qualifications (HTQ) at levels 4 and 5 are an alternative to apprenticeships or degrees. They may suit you if you want a more practical, employer-led study programme, approved by the Institute for Apprenticeships and Technical Education. HTQs are technical qualifications that employers have helped to develop so that you can get the right training and skills you need to succeed at work. As well as studying the academic content of a standard HNC or HND programme the HTQ will also focus on the knowledge and skills required by industry. On successful completion of the HNC, you will be eligible to enrol on the level 5 HND (HTQ)

What you will learn

Over the course of this one year programme, you will study the following units : Engineering Design, Engineering maths, Managing a professional Engineering project, Aircraft Aerodynamics, Aircraft Electrical Power, Airframe Mechanical Systems, Composite Materials for Aerospace Applications, Turbine Rotary Wing Mechanical and Flight Systems. A project or suitable industry placement may also be undertaken to develop industry based knowledge and skills.

Entry Requirements

Standard entry to this course requires a minimum of 32 UCAS points from a recognised level 3 qualification in a related subject (eg. T-Level, BTEC National or A-levels or equivalent) or a higher level qualification in an unrelated subject area. You are expected to hold GCSE English and maths at grade 4 or equivalent. We welcome applicants who do not match standard entry requirements but who can demonstrate the ability to study this subject at university level and who can evidence relevant experience. An interview is required to ascertain prior achievement.

How you will be assessed

You will undertake a range of both written and practical assignments, presentations and in-class controlled assessments. For the HTQ element you may need to complete further project work or an industry placement where appropriate.

Course Progression

On successful completion of the HNC (HTQ) course, you may continue to the level 5 HND (HTQ). Once you have achieved the HND, you will be able to apply to study for a further year to obtain a full degree at university. This qualification is well regarded throughout the industry and the academic world. Career opportunities include managerial and technical positions in mechanical or electrical engineering.

What Happens Next

Applications to our part time Undergraduate courses can be made directly through the college website. Applications to our full-time undergraduate courses must be made through UCAS using institution code L36 and course code 001H. If you haven't started a UCAS application yet, and only want to apply to Leicester College, you can apply directly to us using our direct application form via the College website, and we will process a UCAS application on your behalf. Due to the nature of this programme, you may also be invited to attend an interview. Where necessary, other means of interview (i.e. telephone, web-based, CD/DVD) can be arranged.

Course Details

Course Code	P00270
Start Date	15/09/2025
Study Hours	Full Time
Duration	1 year
Campus	Abbey Park Campus
Level	4

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