

Aeronautical Engineering HTQ Higher National Certificate

Course Overview

This one-year Higher National Certificate (HNC) in Aeronautical Engineering provides the knowledge and skills required for a career in the aerospace and aviation sectors. You will develop an understanding of aircraft systems, aerodynamics and engineering principles, alongside core skills in design and mathematics. The course combines theoretical understanding with practical application, preparing you for real-world engineering environments. Aligned to industry needs, this programme supports progression into employment or further study. On successful completion, you can progress to the HND (Level 5) or begin your career in sectors such as manufacturing, energy, automation or maintenance engineering.

What you will learn

You will study core engineering principles before progressing into specialist aeronautical topics such as airframe systems, aerodynamics and aircraft power systems. You will also explore materials and mechanical systems used in aerospace applications. You will begin by developing core engineering skills in design, mathematics and project management, which underpin your ability to analyse and solve engineering problems. Learning is supported through practical and project-based activities, preparing you for further study or employment.

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 could 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 C787 or apply through Leicester College Website using codes P00270 (FT) or P00269(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	P00270
Start Date	13/09/2027
Study Hours	Full Time
Duration	1 year
Campus	Abbey Park Campus
Level	4

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