

Aeronautical Engineering HTQ Higher National Diploma

Course Overview

This one year full-time Higher National Diploma (HND) in Aeronautical Engineering is designed for those looking to develop advanced knowledge and specialist skills in aerospace engineering while continuing in employment. Building on level 4 study, the course focuses on aircraft systems, propulsion and advanced aerospace technologies, preparing you for higher-level roles within the industry or progression to a degree. Throughout the course, you will apply your learning through project-based work and industry-relevant activities, developing the skills required for progression into higher-level roles or further study within the aerospace sector. This flexible programme supports career development in the aerospace and aviation sectors.

What you will learn

You will study advanced aeronautical engineering topics including flight control systems, propulsion, structural integrity and avionics. Further mathematics and professional engineering management will support your development of analytical and leadership skills. You will apply your knowledge through project-based learning, preparing you for progression to a degree or employment in the aerospace industry.

Entry Requirements

Standard entry to this course requires successful completion of a level 4 qualification in a related subject area, such as a Higher National Certificate (HNC) in Engineering. You are expected to hold GCSE English and Mathematics at grade 4 (C) or above, or an equivalent qualification. 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 supports progression into higher-level employment and further study within the engineering sector. On successful completion of the Higher National Diploma (Level 5), you may progress to a top-up degree (final year of a university programme) or other higher-level qualifications. Alternatively, you may choose to enter or progress within employment. The advanced knowledge and skills developed on this course are valued across a wide range of industries, including manufacturing, energy, aerospace, automotive and automation. Typical roles include design engineer, manufacturing engineer, project engineer or more senior technical positions within engineering organisations. The course is designed to prepare you for long-term career progression by developing both your technical expertise and professional skills.

What Happens Next

Apply online via the College website, and if you meet the entry criteria you will be invited for an interview/audition.

Course Details

Course Code	P00268
Start Date	27/09/2027
Study Hours	Full Time
Duration	1 year
Campus	Abbey Park Campus
Level	5

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