

Mechanical Engineering HTQ Higher National Certificate

Course Overview

This is a two-year part-time programme, in which a Higher National Certificate (HTQ) in Mechanical Engineering is completed. With a career in mechanical engineering as your chosen route, this level 4 course offers students wishing to follow this pathway, both the higher level knowledge, theoretical aspects of mechanical science and design and also the understanding of how this is applied in industry. This qualification will suit students wishing to apply for higher technical level employment with a view to moving into engineering management posts. 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 application of the working 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 two year programme, you will study the following units, in year 1 you will study 4 of the following level 4 units: Engineering Design, Engineering Maths, Managing a professional Engineering Project, Production Engineering for Manufacture, Quality and Process Improvement, Mechanical Principles, Fluid Mechanics, Fundamentals of Thermodynamics and Heat Engines.

Over the two year programme, you will study the following units, in year 2 you will study the remaining 4 level 4 units from the following: Engineering Design, Engineering Maths, Managing a professional Engineering Project, Production Engineering for Manufacture, Quality and Process Improvement, Mechanical Principles, Fluid Mechanics, Fundamentals of Thermodynamics and Heat Engines

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 Fees

For some practical activities you may need to provide your own PPE.

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	P00264
Start Date	15/09/2025
Study Hours	Part Time
Duration	2 years
Campus	Abbey Park Campus
Level	4

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