

## HNC Engineering (Mechanical)

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| Location    | Stretford Campus           |
| Course Type | University Level           |
| Department  | Engineering                |
| Start Date  | Monday 14th September 2026 |
| Duration    | Part-time, 2 Years         |
| Time        | 09:00 - 16:15              |
| Fee         | £ 4000.00                  |
| Course Code | TPQ-HM4H-1900              |

## Course Overview

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Embark on a dynamic journey into the world of Mechanical Engineering on this HNC course, designed to equip you with the essential knowledge and practical skills required for a successful career in this field.

Our dedicated faculty, comprised of experienced professionals, will guide you through the latest industry trends, technological advancements, and sustainable practices. You will also develop essential skills in problem-solving, project management, and teamwork, all of which are highly valued by employers in the field.

Upon successful completion of the HNC program, you will have the option to progress to an HND or enter the workforce with the confidence and competence to contribute effectively to the engineering industry.

# Course Requirements

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Whilst applications are considered on individual basis, offers are usually based on the requirement to have:

64 UCAS points from either:

- A level 3 vocational qualification in a related subject
- GCE A levels
- An Access to Higher Education Diploma in a related subject
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Applicants should have GCSEs grades C/4 or above in maths and English or the equivalent level 2 qualifications.

Mature students with relevant work experience and/or professional qualifications are welcome to apply and may be asked to attend interview

## What You Will Learn

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You will delve deep into the core principles of engineering, including specialisms such as thermodynamics, mechanical principles, and PLCs.

Mechanical Principles includes the study of fundamental laws and applications of physical sciences within engineering, including static and dynamic forces, fluid mechanics, and thermodynamics. This knowledge is supplemented by developing an understanding of the integration of mechanical engineering, electronics, computer control, and information technology.

Hands-on laboratory sessions, workshops, and industry-relevant projects will enhance your practical expertise, allowing you to apply theoretical concepts to real-world scenarios. Successful completion of the course will enable you to perform key mechanical engineering tasks in the sector, understand processes and operations, and work effectively in the industry.

## Assessment

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**Coursework and Assignments:** Coursework and assignments are common assessment tools. Students are given specific projects or tasks related to their coursework, and they are evaluated on their ability to apply theoretical knowledge to practical problems.

**Practical Work:** Practical laboratory sessions are a crucial part of an electrical engineering program. Students may be assessed on their ability to conduct experiments, analyse data, and draw conclusions from their findings.

**Reports and Technical Writing:** Students may be required to write technical reports based on their laboratory work or projects. These reports assess their ability to communicate technical information effectively.

**Presentations:** Students may be asked to give presentations on engineering topics, projects, or case studies. This assesses their communication and presentation skills, as well as their understanding of the subject matter.

## Progression

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On successful completion you may progress to a HND at Level 5 and then to a top-up Level 6 on a related undergraduate programme such as:

BEng (Hons) Mechanical Engineering  
BEng (Hons) Mechanical Engineering and Management  
BEng (Hons) Mechanical and Production Engineering  
BEng (Hons) Mechanical and Manufacturing Engineering  
BSc (Hons) Mechanical Engineering  
BSc (Hons) Mechanical Engineering (Automation)

## Career Options

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This HNC opens a wide array of rewarding career options in various sectors. Graduates of this program are equipped with a strong foundation in mechanical engineering principles and practical skills, making them valuable assets to industries that rely on innovation, design, and problem-solving. Here are some promising career paths:

Engineering Technician  
Mechanical Engineering Technician  
Technician (Mechanical)  
Technician Mechanics

## Mandatory Units

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At Level 4 you will study the following units:

Engineering Design  
Engineering Maths  
Engineering Science 1  
CAD Schematics for Maintenance Engineering  
Managing a Professional Engineering Project  
Mechanical Principles  
Fundamentals of Thermodynamics and Heat Transfer  
Automation, Robotics and Programmable Logic Controllers (PLCs)

## Extra Costs Involved

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No

## Exam Validation Body

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Pearson Education Ltd.

# Exam Validation Body

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Pearson Education Ltd.

## Hours Per Week

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6 hours (1 day) part-time.

## How Long To Complete

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Two years part-time with one full day attendance per week

## Programme Structure

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Each unit is worth 15 credits and over the course of the programme you will gain 120 credits.

## Contact Details

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For further information please email [HEenquiries@tcg.ac.uk](mailto:HEenquiries@tcg.ac.uk)

## Disclaimer

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Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.