

## HNC Manufacturing Engineering for England (HTQ)

Location	Stretford Campus
Course Type	University Level
Department	Engineering
Start Date	Monday 15th September 2025
Duration	Part-time, 1 Year
Time	-
Fee	£ 0.00
Course Code	TPQ-HM4H-1600

### Course Overview

---

Our new Level 4 Higher Technical Qualification in Manufacturing Engineering, introduces a range of engineering fundamentals and business concepts, equipping students to improve existing manufacturing processes. You will be exposed to management training and how to apply it to the production environment to become a multifaceted production manager.

### Course Requirements

---

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

64 UCAS points from either:

- A Level 3 vocational qualification in a relevant subject
- GCE A Levels
- An Access to higher Education Diploma in a relevant subject

Applicants should have GCSEs grade C/4 or above in maths and English.

Mature students with relevant work experience and/or professional qualifications are welcome to apply, and may be invited to interview.

## What You Will Learn

---

As you progress through our modules, you will develop an understanding of engineering in different contexts, and learn about production engineering for manufacturing, as well as how to undertake quality and process improvement. Students will broaden their understanding of design, maths and product design, learning how these are applied in practice.

Examination of historical, theoretical and ethical positions in response to engineering design, will develop your knowledge of manufacturing engineering. This is also achieved by considering the relationship between traditional skills and developing technologies and being aware of the creative process of engineering design.

## Assessment

---

**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

---

On attainment at Level 4, students may choose to progress to the Level 5 HND and subsequently complete professional qualifications and/or a level 6 top-up degree, in a relevant area, such as:

- BEng (Hons) Manufacturing Engineering)
- BEng (Hons) Systems Engineering
- BEng (Hons) Mechanical and Manufacturing Engineering
- BSc (Hons) Mechanical and Manufacturing Engineering

## Career Options

---

A Higher National Certificate (HNC) in Manufacturing Engineering opens a wide array of rewarding career options in various sectors. Graduates of this program are equipped with a strong foundation in manufacturing engineering principles and practical skills. This qualification equips you for entry to careers such as:

Product Development Engineer  
Manufacturing Engineer  
Production Supervisor or Manager

## Mandatory Units

---

At Level 4 you will study the following units:

Engineering Design  
Engineering Maths  
Managing a Professional Engineering Project  
Production Engineering for Manufacture  
Quality and Process Improvement  
Computer Aided Design and Manufacture (CAD/CAM)  
Industry 4.0  
Industrial Robots

## Extra Costs Involved

---

No.

## Exam Validation Body

---

Pearson Education Ltd

## Exam Validation Body

---

Pearson Education Ltd

## Hours Per Week

---

6 hours for part-time course or 12 hours for full-time course.

## How Long To Complete

---

Two years part-time with one full day attendance per week, or one year full-time with two full day attendance per week.

## Programme Structure

---

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

## Contact Details

---

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

## Disclaimer

---

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.