

# Higher National Certificate in Manufacturing Engineering



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Subject Area	Engineering
Course Type	Higher Education
Study Level	Level 4
Delivery Mode	Part-time
Location	David Hockney Building
Duration	2 Academic Years
Start Date	September 2025
Course Code	PPHN064

## Course Summary

The Higher National Certificate (HNC) in Manufacturing Engineering offers a comprehensive and industry-focused pathway for those looking to advance their careers in the dynamic field of engineering.

This course is designed to equip you with the essential technical skills, practical knowledge, and problem-solving abilities required to excel in modern manufacturing environments.

Whether you're a current industry professional seeking to upskill or a new learner passionate about pursuing a career in engineering, the HNC in Manufacturing Engineering provides a solid foundation in areas such as materials, production processes, CAD, and quality management. Prepare to develop the expertise that will make you an asset in the fast-evolving engineering sector.

You will develop a wide range of scientific and engineering knowledge linked to practical skills obtained through research, independent study, directed study and workplace

scenarios.

## What You Will Learn

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You will have sound knowledge of the basic concepts of manufacturing engineering and be competent in a range of subject-specific skills as well as in general skills and qualities relevant to these key areas of engineering. The School of Engineering invites guest speakers from time to time to provide an insight into practical, work-based activities and to deliver masterclasses.

## Modules

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

## Entry Requirements

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A BTEC Level 3 qualification in Engineering and a minimum of 80 UCAS points. GCSE Mathematics and English at Grade 4 minimum or equivalent.

**Or**

A minimum of 80 UCAS points including at least one Level 3 qualification in Maths, Physics or Computer Science. GCSE Mathematics and English at Grade 4 minimum or equivalent.

**Or**

An Access to Higher Education Certificate in an Engineering discipline awarded by an approved Further Education institution.

## Work Experience

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Although this course does not directly offer work experience, there are opportunities for you to undertake a work placement or work experience during your time studying on this course.

## Progression

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Successful completion of the programme can lead to an HND in Manufacturing Engineering. The programme is designed to support career progression for anyone working in Engineering or for those who would like to develop their knowledge and skills and pursue a career in this field.

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