

## EVERYONE HAS AN INNER GENIUS

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you find yours

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AWARDED SILVER IN THE  
2017 TEACHING EXCELLENCE  
FRAMEWORK

Course Validated by



# HNC Operations Engineering

From controlling bulldozers and cranes to maintaining equipment and diagnosing faults, operations engineering is a diverse and highly skilled area.

### COURSE OVERVIEW

The Higher National Certificate in Operations Engineering is a tried and tested programme which combines academic study with the students own work based development of practical skills in order to achieve a higher level qualification. The purpose of the qualification is to equip students with the knowledge and skills necessary to develop their careers from technician level to more senior positions within their employment. The course will put an emphasis on applied learning, developing skills and knowledge and applying these within the workplace.

### WHAT WILL I BE DOING?

You will study a selection of the following modules according to staff availability and student preference; modules may be subject to change.

#### - Further Mathematics for Engineering Technicians

A preparation mathematics module that is taught across all of our HNC programmes to provide a good base and preparation for the Analytical Methods module.

#### - Analytical Methods

A mathematics module, taught across all HNC programmes, providing contextualised analysis of mathematics in engineering situations.

#### - Engineering Science (Mechanical and Electrical)

A science module, taught across all HNC programmes, to provide a good general engineering science base for any engineering subject.

### LOCATION

#### WORCESTER

WOPE-HC4HE-1820

### COURSE LENGTH

18 months (part-time)

### TUITION FEES

£4,000 per year

### AWARD ON SUCCESSFUL COMPLETION

Pearson HNC Operations  
Engineering

### HOW TO APPLY

Please apply through  
our website at  
[www.howcollege.ac.uk](http://www.howcollege.ac.uk)

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### - Instrumentation and Control Principles

The aim of this module is to introduce the principles and practice of instrumentation and control in process industries.

### - Programmable Logic Controllers

The aim of this module is to investigate programmable logic controller (PLC) concepts and their applications in engineering.

### - Project Design, Implementation and Evaluation

Usually a work-based project to develop skills of independent enquiry demonstrating project management skills relevant to the students own employment and ambitions.

### - Plant Maintenance and Decommissioning

This module will provide understanding of the types and need for maintenance of engineering plant and skills needed to prepare maintenance procedures and evaluate decommissioning procedures.

### - Plant and Process Principles - Mandatory Module

This module will provide the skills and understanding of the engineering principles that underpin the design and operation of plant engineering systems and equipment.

### ENTRY REQUIREMENTS

Level 3 qualification in a suitable discipline or for mature students relevant industrial experience may be considered.

### DELIVERY INFORMATION

Part-time classroom based delivery from 08.45 to 17.30 one day per week (day to be confirmed). In addition to this you are expected to complete an average of 3 hours independent study per week.

### METHODS OF ASSESSMENT

A range of assessment techniques which may include; written assignments, examinations, work-based projects and verbal presentations.

### STAFF EXPERIENCE

The course will be delivered by a blend of experienced staff that have a wide and extensive range of qualifications and vocational knowledge. All staff have industrial experience in their chosen focus of study and complete frequent scholarly activities to update their knowledge and skills. This breadth and depth of module specific knowledge and experience allows the team to introduce the modules using innovative approaches and vocational context in the classroom which emulates with work based learners.

