



University of Central Lancashire

Training 2000

# Higher Technical Qualification (HTQ)



HTQ: Level 4 HNC in Automation and Control Engineering

HTQ: Level 4 HNC in Mechatronics for England

Higher Technical Qualifications (HTQs) are qualifications that have been designed by employers to address technical skills gaps that exist right now!

These skills and these qualifications are currently in-demand and are predicted to be in high-demand in the future. After you have finished, you will be qualified for highly-skilled, highly-paid jobs straight away.

“ In the main, the hard to fill jobs centre around “Engineering Technicians”, “Maintenance Technicians” and “Manufacturing Engineers”

- Lancashire Local Skills Improvement Plan (LSIP) - May 2023

[www.instituteforapprenticeships.org](http://www.instituteforapprenticeships.org)

[www.training2000.co.uk](http://www.training2000.co.uk)

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# Higher Technical Qualification course information

## Entry requirements:

Five GCSEs at grade 9-4 (A\*-C) including Maths and English

64 UCAS points from any of the following areas:

- A-Levels - ideally in Maths, Science and/or Engineering
- Level 3 Diploma in Engineering

All applicants will have to attend an eligibility interview with Training 2000

## Duration:

One year full time

- 2 days of Higher Education
- 3 days of practical workshop training
- Last three months will be a work placement

OR two years part-time over two evenings per week

**Cost:** £7,500 - funding available via Student Finance England

## Level 4 HNC in Automation and Control Engineering units

Engineering Maths  
Engineering Science  
Programming for Engineers  
Professional Engineering Practice  
Engineering Mechanics and Materials  
Mechatronics  
Automation, Robotics and Programmable Logic Controllers (PLCs)  
Analogue & Digital Electronics

## Level 4 HNC in Mechatronics for England units

Engineering Design  
Engineering Maths  
Managing a Professional Engineering Project  
Production Engineering for Manufacture  
Quality and Process Improvement  
Engineering Mechanics and Materials  
Analogue and Digital Electronics  
Mechatronic Systems in Manufacturing

## Practical training to include:

- Electrical & Electronics
- Electrical & Mechanical Maintenance
- Mechatronic Systems in Manufacturing
- Automation, Robotics and Programmable Logic Controllers (PLCs)
- Optional: CAD and CAD CAM
- Employability skills
- Effective Communication

## Future careers:

Automation and Controls Engineer - Mechanical/Electrical  
Design Engineer - Automation/Control Systems  
PLC Automation Engineer (Programmable Logic Controller)

## Future careers:

Mechatronics Engineer  
Robotics Engineer/Technician  
Mechatronics Design Engineer