INFORMATION FOR LEARNERS

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*

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Part of the University of Central Lancashire

University of Central Lancashire UCLan

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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 starting in September 2024 consisting of:

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

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

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