CELTEC

Centre for Emerging Leading Edge Technology Empowering Change

PLC Based Analog Automation

This course outlines the fundamentals of analogue automation.

For more information and to apply, visit

www.celtec.ie/analogueauto

Course Learnings

Fundamentals of Analogue Automation

Develop an understanding of analogue automation principles, including continuous signal processing and the operation of sensors, transducers, actuators, proportional solenoids, and variable-speed drives in industrial control systems.

PLC Programming for Analogue Control

Apply Siemens TIA Portal and S7-1500 PLC programming techniques to configure analogue inputs and outputs, perform signal scaling, implement comparison and conditional logic, and manage continuous control applications.

Commissioning and System Deployment

Gain the practical skills to connect, deploy, commission, and bring analogue PLC-based automation systems into safe and reliable operation using hands-on industrial exercises.

Fault Finding and System Recovery

Develop structured troubleshooting techniques to interrogate PLC code, identify faults, reset analogue automation systems, and implement corrective actions that minimise recurring failures.

Industrial Application and Continuous Improvement

Build the competence to analyse PLC-controlled analogue systems, standardise fault-finding practices, and optimise system performance through practical, real-world automation scenarios.

APPLY

www.fetchcourses.ie

AT A GLANCE

DURATION
2 Classroom Days

LOCATION
CELTEC, Celbridge, Co. Kildare, W23 HCK2

DELIVERY
Classroom Based

SUITABILITY
Those in employment in the Kildare and Wicklow regions

TECHNOLOGY
This course uses Siemens TIA 1500 PLC's

COST
This course is partially funded under the Skills To Advance initiative for eligible applicants

COURSE REQUIREMENT
Experience in related industrial sectors would be beneficial for the learner.

CERTIFICATION
Certificate of Completion

Skills to Advance
boost skills - boost business

BORD OIDEACHAIS AGUS OILIÚNA CHILL DARA AGUS CHILL MHANTÁIN
KILDARE AND WICKLOW EDUCATION AND TRAINING BOARD

SOLAS An tSeirbhís Oideachais Leanúnaigh agus Scileanna Further Education and Training Authority