CELTEC
Centre for Emerging Leading Edge Technology Empowering Change

PLC Based Discrete and Digital Automation

This course outlines the fundamentals of discrete or digital automation.

For more information and to apply, visit
www.celtec.ie/discreteanddigitalauto

Course Learnings

PLC Fundamentals and Digital Automation
Develop a solid understanding of PLC operation, digital signal processing, and how discrete automation systems are used to control modern industrial processes.

PLC Programming and System Configuration
Apply ladder logic programming techniques, including latches, interlocks, timers, counters, sequential control, and data tagging, using TIA-1500 PLCs.

Commissioning and Operation
Gain the practical skills to connect, deploy, and commission PLC-controlled digital automation systems, bringing equipment safely into operation through hands-on industrial exercises.

Fault Finding and System Recovery
Develop structured troubleshooting techniques to interrogate PLC code, identify faults, reset automation systems, and implement corrective actions that minimise recurring issues.

Industrial Application and Best Practice
Build confidence in applying PLC programming and fault-finding techniques to realistic manufacturing scenarios involving sensors, pneumatic systems, material handling, and discrete production equipment.

APPLY

1. Expression of Interest
2.

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

SOLAS
learning works

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KILDARE AND WICKLOW
EDUCATION AND TRAINING BOARD

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