CELTEC
Centre for Emerging Leading Edge Technology Empowering Change

PLC Based Kinematic Systems

This course focuses on developing skills to program and control PLC-based kinematic systems, as well as troubleshooting motion-related issues and optimising system performance.

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

Course Learnings

PLC Programming for Kinematic Systems
Develop the skills to program PLCs to control complex kinematic applications, including robotic arms, conveyors, and automated material handling systems.

Motion Control System Integration
Learn how to configure and integrate motors, actuators, sensors, and feedback devices with PLCs to achieve accurate motion control and positioning.

Troubleshooting and Diagnostics
Apply systematic troubleshooting and real-time diagnostic techniques to identify, resolve, and prevent faults in PLC-controlled motion systems.

System Optimisation and Performance
Implement strategies to optimise motion control systems by improving precision, reliability, efficiency, and overall operational performance.

Practical Industrial Application
Gain hands-on experience using Siemens PLC hardware to develop, test, and deploy kinematic automation solutions in realistic industrial scenarios.

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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