

Robotics Fundamentals & Application Identification

This course will provide the learner with the key knowledge and skills to identify and evaluate deployment opportunities for robots within their own manufacturing organisation.



For more information and to apply, visit

www.celtec.ie/applicationintegration

Course Learnings



Industrial System Integration Fundamentals

Develop an understanding of the principles and architectures used to integrate automation systems, equipment, and software into cohesive industrial applications.



Communication Protocols and Device Connectivity

Learn how to connect PLCs, robots, sensors, HMIs, and other field devices using industrial communication protocols to enable reliable data exchange and system interoperability.



Application Development and Configuration

Gain practical skills in configuring, programming, and commissioning integrated automation applications that support efficient manufacturing processes.



Diagnostics, Troubleshooting, and Optimisation

Apply structured troubleshooting techniques to identify communication, configuration, and performance issues while optimising integrated systems for reliability and operational efficiency.



Industrial Deployment and Best Practice

Build the capability to implement, validate, and maintain integrated automation solutions that meet industry standards, improve productivity, and support digital manufacturing initiatives.



APPLY

Expression of Interest

AT A GLANCE



DURATION

6 Classroom Days



LOCATION

CELTEC, Celbridge, Co. Kildare, W23 HCK2



DELIVERY

Classroom Based



SUITABILITY

Those in employment in the Kildare and Wicklow regions



COST

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



COURSE REQUIREMENT

No prior knowledge of Robotics is expected. Basic PC Skills and solid understanding of English is essential



CERTIFICATION

QQI Level 6 Micro Qualification in Robotic Application Identification