

PROFINET Communication Protocol and Automation Integration

This course outlines the fundamentals of the PROFINET communication protocol.



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

Course Learnings



PROFINET Network Fundamentals

Develop an understanding of PROFINET architecture, industrial Ethernet communication principles, network topologies, and device addressing used in modern automation systems.



Network Configuration and Integration

Learn how to configure PROFINET devices, establish communications between Siemens PLCs and distributed I/O, and integrate networked automation components using Siemens TIA Portal.



PLC Communication and Data Management

Apply practical programming techniques to exchange process data across PROFINET networks, configure diagnostics, and manage communications between controllers and field devices.



Commissioning and Fault Diagnosis

Develop the skills to commission PROFINET networks, identify communication faults, interpret diagnostic information, and restore reliable operation using structured troubleshooting methods.



Industrial Networking Applications

Gain hands-on experience implementing PROFINET solutions that improve system connectivity, operational reliability, and performance in industrial automation environments.



APPLY

Expression of Interest

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