

PLC Based Communication via Modbus

This course outlines the fundamentals of the Modbus communication protocol.



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

Course Learnings



Modbus Communication Fundamentals

Develop an understanding of Modbus communication principles, protocols, addressing, and data structures used to exchange information between industrial automation devices.



Configuring Modbus Networks

Learn how to configure Modbus RTU and Modbus TCP communications by establishing connections between Siemens PLCs, field devices, and third-party equipment.



PLC Integration and Data Exchange

Apply practical programming techniques in Siemens TIA Portal to read, write, and manage Modbus data for seamless integration of industrial control systems.



Commissioning and Troubleshooting

Develop systematic approaches to commission Modbus communication networks, diagnose communication faults, and resolve connectivity issues to ensure reliable system operation.



Industrial Communication Applications

Gain hands-on experience implementing Modbus solutions that enable efficient data exchange, device interoperability, and enhanced performance in modern industrial automation environments.



APPLY

12 November 2026

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