

Programmable Logic Controllers

This course equips the learner with the knowledge, skill and competence to program and locate faults in a programmable logic controller (PLC) working independently or in a supervisory capacity.



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

Course Learnings



PLC Fundamentals

Develop a solid understanding of PLC operation by identifying the standard hardware components, their functions, and the principles of industrial control using Siemens S7-1500 PLCs.



PLC Programming

Create and modify PLC programs using Ladder Logic and Statement List while applying core logic instructions including AND, OR, NOT, timers, counters, and internal relays.



Inputs, Outputs and Electrical Integration

Interpret circuit diagrams, allocation lists, and field device symbols to configure, test, and monitor PLC inputs and outputs within industrial control systems.



Fault Finding and Diagnostics

Develop practical troubleshooting skills by locating, analysing, and rectifying PLC hardware and software faults using programming tools and system documentation.



Practical Industrial Application

Build confidence through hands-on exercises that involve programming, testing, commissioning, and fault-finding on real-world automation systems using Siemens S7-1500 PLCs.



APPLY

www.fetchcourses.ie

AT A GLANCE



DURATION

5 Non-Consecutive
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

Applicants must have prior
technical experience or
knowledge and/or exposure to
an industrial electrical
environment



CERTIFICATION

QQI Level 6 Minor Award in
Programmable Logic
Controllers (6N5370)