

Deploying Control Strategies from Bang Bang to PID on PLC Systems

This course will outline the steps in implementing and optimizing the controller parameters for discontinuous control strategies such as Bang Bang control and continuous PID control strategy in all its combinations.



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

Course Learnings



PLC Control Strategy Fundamentals

Develop the knowledge and practical skills to implement and deploy Bang Bang and PID control strategies using Siemens PLC systems in industrial automation applications.



System Commissioning and Deployment

Learn how to connect, configure, and commission PLC-controlled systems to bring automation processes into safe and reliable operation.



Fault Diagnosis and Recovery

Develop systematic troubleshooting techniques to identify PLC faults, interrogate control systems, and restore production efficiently following system failures.



Control System Optimisation

Apply PLC programming skills to modify and optimise controller parameters, reducing recurring faults while improving process stability and production performance.



Practical Industrial Application

Gain hands-on experience using Siemens TIA-1500 PLCs to develop, test, and refine industrial control strategies through realistic production scenarios.



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