



REALIZE YOUR POTENTIAL EMPOWER YOUR CAREER

Why? The Need

Control systems are at the heart of industries and utilities managing their operations and impacting productivity. These Control technologies are becoming more complex and more connected. Control Engineers and technicians are being under pressure like never before. The systems they must design, operate and maintain require more diverse skillset and knowledge.

Automation Lab's aim is to address these challenges through learning and education. Capitalizing on our vast industry experience, coupled with our strong relationship with well know Automation and SCADA brands, we commit to deliver our students the needed skillset and tools to excel in their Control Projects.

Who We Are?

AUTOMATION LAB delivers industry oriented Instrumentation, Automation and SCADA training courses for institutions and individuals.

The courses are delivered by well experienced trainers having extensive knowledge in designing and deploying proven Automation & SCADA systems for different market sectors using multiple Control brands and platforms.

Why Automation Lab?



The courses are sponsored by:



The courses are powered by:





Mastering PLC Programming with IEC 61131-3 (Code: PLC002)



Objectives

- Understand the different PLC programming languages
- Be able to identify the best PLC programming language for each type of application
- Understand the basic data types and advanced data types
- Mastering PLC programming with different IEC61131-3 languages
- Mastering the best coding practices

Target Audiences

- Consultants
- System Integrators
- Electrical Engineers
- Automation Engineers
- Mechanical Engineers
- Maintenance Engineers
- Electrical and Control technicians
- Electrical and Automation engineering students

Prerequisite Knowledge

- Course: PLC001

Duration and Delivery

- 24 hours course
- Delivery in classroom for individuals or on premises for corporates
- **50% special discount for April and May.** Original Price is 900 USD.
Current price is 450 USD.

Certificates

- Certificate of attendance will be delivered to all attendees at the end of the course.
- Professional Certificate of Competency in Automation and SCADA systems will be delivered to all attendees who have completed the following courses: PLC001, PLC002, PLC003 & SCADA001

Content

Introduction to IEC61131-3
Working with Variables and data types
Working with Tasks and Events
Ladder Diagram Programming
Function Block programming
Sequential Function Chart Programming
Structured Text Programming
Instruction list programming
Using Function Libraries
Using derived data types
Creating and using User defined function blocks
Best Coding Practices Consideration
Practical Applications

Training and Teaching method

- Handouts including learning book and exercises papers
- Practical exercises using TwinCat3 software
- Maximum 12 participants per session