

An ISO9001:2008 Certified institute

Automation with PLC



**Electro-unique Creations
Jalgaon**

Course Objective

- The objective of subject are that student will able to understand the role of Industrial automation for different processes based on PLC system and its requirement. It also provide the basic operation of programmable logic control and its functions. Student will learn the input output device for the PLC, Its operation, Its selection according to application and its interfacing.

Need of PLC?

- For Industrial motor controlling.
- To perform the switching operation with relay and contactor.
- To perform fast robotic operation.

Syllabus

- **Introduction to Industrial Automations-** Role of automation in Industry, programmable logic controller, Basic operation, PLC architecture and component, Programming language, PLC application and manufacturer, Introduction to automation tool, PLC, SCADA, DCS, Hybrid DCS. **(6Hr)**
- **Basic PLC function and programming-** PLC registers, PLC modules, Addressing system, Field input output system, PLC timer functions, PLC counters, Industrial process and timing applications, Selection of PLC and I/O modules. **(6Hr)**
- **Instruction data handling functions-** PLC logical instructions, PLC arithmetic instruction, PLC repetitive clock function, PLC numbering system, conversion function, PLC master play control, Jump, data move instructions and other data handling functions, Scaling instruction. **(6Hr)**
- **Programming of PLC-** Introduction LAD / FBD language, PLC configuration with I/O designations, addressing system in programming, process to develop ladder programming language in software, Uploading and downloading the program to/from PLC, to develop ladder for ON/OFF of motor, Traffic signal light etc. **(6Hr)**
- **Application of PLC and SCADA-** Automobile industry, pharmaceutical, power, chemical. **(2Hr)**

Course Fees

Sr.No	Course Name	Duration	Fees
1	Basic Level	4Hr	400/- per student
2	Middle level	16Hr	2000/-per student
3	Advance Level	26Hr	4500/- per student



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