ENSOLT

Engineering Solutions and Training

More than engineering...

Programmable Logic Controllers Training-Advanced ET- 08

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In this course students will be introduced to understand and implement OEM's logical description into IO design, IO wiring, Logic design and tesing.

This course will focus on the role the programmable logic controller plays in the design of a control system and how proper selection, installation and maintenance can reduce operating costs and improve performance. It will provide the technical expertise necessary to install, perform routine programming and maintenance and apply proper troubleshooting and configuration techniques.

The second part of the course covers PID Controllers. In this course, engineer will learn how to implement a PID controller in software. Engineer will understand when the Proportional, Integral, and Derivative components of the controller should and shouldn't be used. Engineer will learn how to tune a loop.

The third part of the course covers fuzzy logic for automatic control. The objectives are to train the basics of fuzzy logic, to show how to use fuzzy logic, and to design a fuzzy controller.

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Duration : 3 Weeks, 6 Hours /Week

Week	Title
1	Understanding OEM's Logical description
	Conversion of logical description into Ladder diagram
	Conversion of logical description into Function Block diagram
	Conversion of logical description into Sequential Function Charts
2	IO list preparation for any equipment
	Wiring of IO devices to PLC
	IO Devices Calibration
	Industrial equipment Logic Designing and Testing
3	Designing of PID Controller
	Designing of Fuzzy Logic Controller

Outcome: Students will be able to meet the requirements of configuring, programming, installing and operating of industrial automation systems. Process control using PID & Fuzzy can be implemented by students.