Society of Hydraulics and Automation
Part of everyone's Life....

INDUSTRIAL AUTOMATION WITH PLC

Learning Goals: -

The Most Used Guiding Force Behind An Automated Industrial Plant Is A "Programmable Logic Controller" Generally Known As A **PLC**. PLCs Along With Certain Other Necessary Ingredients Like Sensors, Motors, Actuators, Valves, Conveyors, Boilers, , Computers & Many More, Makes A Real Automated Manufacturing Plant.

The main objective of **PLC Workshop** is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation. The idea of organizing this workshop is to inculcate the basic fundamentals of automation in the students and provide them with a platform to work on, In The Near Future.

Course content:-

Day 1 (Session 1)
- Presentation on Recent Trends in Industrial Automation & PLC

- Introduction To Automation

- Why We Need Automation

- Evolution In Industrial Automation (A Brief History)

- Different Type Of Industrial Control Mechanisms)

- Introduction to PLCs

- PLC Advantages over Microcontrollers

- Area of Applications

- DATA Flow During Automation

- Motor Drives Introduction & Their Need

- Sensors Introduction & Their Need

- HMI Introduction & Its Need

Day 1 (Session 2- Practical)
- Detail study of PLC

- PLC

- PLC I/Os Basics, Burning & Interfacing Concepts

- Allen Bradley & Rockwell Automation's Details

Day 2 (Session 3)
- Brief Description To Input/ Output Pins Of Micrologix-1000

- Ladder Diagram Basics

- Introduction To RSLogix

- Downloading a Ladder Program in PLC Using RSLinx.

- How To Take Input from Panel

- How To Give Output To Panel

- Running First PLC Application

Day 2 (Session 4)
- Hands on PLC Training Kit

- Participants will perform hands on PLC training Kit which contain Allen Bradley Micrologix 1000 PLC.

DURATION: - 2 Days
Fee: - 1250INR + SERVICE TAX (per students)
   Warm Regards,
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