# PLC and SCADA

**Description**

SCADA is an acronym for **S**upervisory **C**ontrol **a**nd **d**ata **a**cquisition, a computer system for gathering and analyzing real time data. SCADA systems are used to monitor and control a plant or equipment in industries such as telecommunications, water and waste control, energy, oil and gas refining and transportation.

**Expectations and Goals**

To make set point changes on distant process controllers, To open or close valves or switches, To monitor alarms, and. To gather measurement information.

**Prerequisites**

Anybody interested in PLC can take this Training. Basic knowledge of PLC Programming.

**Course Schedule**

| Module | Topic |
|---|---|
| **Module 1** | Basic PLC Programming<br>1.1 NO/ NC<br>1.2 SPDT<br>1.3 Latching<br>1.4 Memory Bit<br>1.5 Comparator<br>1.6 Counter<br>1.7 Timer |
| **Module 2** | Communication and Interfacing between PLC to PC |
| **Module 3** | Introduction to SCADA<br>Different SCADA Software and its application<br>How it works in automation industry<br>Application |
| **Module 4** | SCADA Design<br>1.1 Text box<br>1.2 I O Box<br>1.3 Object Window |
| **Module 5** | Tag Management<br>1.1 Direct Tagging<br>1.2 C-Action |
| **Module 6** | SCADA Operation<br>1.1 Object Hiding<br>1.2 Flashing<br>1.3 Digital Display |
| **Module 7** | SCADA Analog operation<br>Analog operation<br>Creating project window of analog signal<br>Data show for analog<br>Assignment based on Analog operations |
| **Module 8** | Project work and documentation |