PLC Basic programming

Pre-request: General Knowledge about electricity and classic control

Course duration: 36 Hours

On completing this course you will be able to:

- Understand all basics of any control panel and its complicated connections

- Able to connect any production line with classical control

- Understand the internal hardware of any PLC device

- Able to connect any digital input or output

- Learning basics of ladder programming

- Able to make the program for any production line

- Able to work on the software of Allen Bradley company

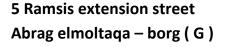- Able to work on the software of Siemens specially s7-1200

Course Content:

1) PLC hardware configuration.

2) PLC wiring

3) Discover PLC S7-1200 CPU

4) PLC Configuration on PC

5) Basic of ladder language.

6) Download and upload software to PLC

7) Siemens software SIMATIC STEP7 Professional_V13

8) Allen Bradley company software.

9) Control of tanks filling using PLC.

10) Control of doors using PLC.

11) Control of conveyers using PLC.

12) Batching process control.

13) Silo process control.

14) Garage door control.

15) Using Counters in PLC.

16) Using Timers in PLC.

17) LG software

18) Schneider software

19) Application in PLC

20) Work on sample production line

21) Basics of sensors.

22) Optical sensors.

23) Inductive sensors.

24) Capacitive sensors.

25) Wiring of sensors.

26) How to connect any sensor for PLC.