



# SYLLABUS Of SMC TRAINING CENTER

## SMCTC – PROGRAMMABLE LOGIC CONTROLLERS (PLC)

### ➤ OBJECTIVES

Participants will have a course that meets 4 days where they will be able to:

- Understand the structure, the hardware configuration and operation of PLC
- Develop their ability in program writing and programming of PLC
- Use advanced commands and its application to complex system designs
- Carry out systematic system design and programming
- Use intelligent input/output modules for more sophisticated controls

### ➤ COURSE CONTENT

1. Background of PLC development
2. Structure of PLC
3. Hardware configuration of PLC
4. Key point to know when using a PLC
5. Logic and sequence controls
6. Ladder diagram programming
7. Timer and counter applications
8. Peripheral devices and interfacing
9. Selection of PLC
10. Practical Exercises with troubleshooting
11. Position control
12. Temperature Control
13. Analog Input and Output Control
14. Advanced commands and its applications
15. Serial interface 2 - wire systems
16. Error - reporting and documentation systems
17. PLC networking