

## Training Programme on Basic Industrial PLC (CU-PLC)

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### Objectives

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- will have a basic or fundamental knowledge of S7 PLC & HMI
- will know about the product specifications, range, hardware / constructional details and features of the product
- will work with Step 7 PLC Programming software

### Target Group

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Diploma / Degree students in Electrical / Electronics/ Instrumentation/ Electronics & Telecommunication/ Biomedical/ Mechanical/ Production & Mechatronics Engineering.

### Content

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1. Basic constituents of PLC: Signal modules, CPU, Power Supply, mounting rail and MMC.
  2. How PLC works?
  3. Installation guidelines, powering and wiring of modules with information on addressing
  4. Programming:
    - a. Programming language and representation in STL, FBD and LAD
    - b. Hardware Configuration and setting object Properties of Modules in STEP
    - c. Programming instruction: AND, OR, AND-before-OR, OR-before-AND, NO / NC contacts, Edge detection instructions. Set / Reset, Elementary data type,
  5. Overview of SIMATIC S7 – PLC:
    - a. Programming Units and using PC as Programming Unit
    - b. Hardware Configuration and setting object Properties of Modules in STEP
    - c. Step 7 Instructions and programming: Set / Reset, Elementary data type, Load / Transfer, Comparison, basic math instructions.
    - d. Timers / Counters List etc.
  6. Using Symbol Table and VAT.
  7. STEP 7 blocks and structured programming
  8. Using Data Blocks.
  9. Use of Organization Blocks.
  10. Analog signal processing.
  11. Introduction to HMI
- Integration of PLC and HMI  
Control and monitoring from HMI with task

### Note

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Contact us or Email us to enquire about the fee structure

### Type

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Face-to-face training

### Duration

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40 hours

### Language

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en

### Fee

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