

SIMATIC S7-300 & S7-400 with SIMATIC Manager (CO-CLS3040)

Objectives

To make participants aware and familiar with:

- SIMATIC S7-300/S7-400 automation system
- STEP7 Classic software (SIMATIC Manager)
- Basic programming concepts in STEP7
- Troubleshooting of S7-300/S7-400 system

Target Group

- Service engineers
- Programmers
- Commissioning engineers
- Maintenance engineers

Content

Hardware topic:

- SIMATIC \$7-300 hardware detailed information, protocols, DI/DO module wiring, LED's explanation, front indicators
- SIMATIC S7-400 family in detail
- Hardware configuration of SIMATIC controller in STEP7

SIMATIC Manager topics:

- SIMATIC Manager i.e. STEP7 Classic software overview
- Licensing concept for STEP7

Software and Programming concepts:

- Working with symbol table
- Bit logic instructions
- Programming rules
- Timers and counters
- Working with VAT tables
- Analog value processing
- Linear v/s structured programming approach
- Effective programming using function and function blocks
- Use and need of data blocks
- Types of data blocks
- Concept of Organization blocks

Communication - Offline demo:

S7-300/S7-400 controller with remote station on Profinet(PN)/Profibus DP protocol

Troubleshooting and diagnostic topics:

- Significance of LED indication on different modules
- Diagnosis using diagnostic buffer
- Cross-references, call structure, assignment list, dependency structure
- Memory overlap identification
- Project backup
- Forcing, renaming, and rewiring concepts
- Project comparison

HANDS ON:

Application example-based exercises after each topic.

Prerequisites

- Basic know how about automation technology is must
- Basic knowledge of electrical technology and digital electronics is essential

Note

TECHNICAL REQUIREMENT:

- A computer or laptop with Windows 7/10 OS and a stable internet connection. (We recommend a data transfer rate of 16 Mbit/s.)
- Microsoft Teams platform for technical presentations and demo.

(We recommend using desktop app for best possible use of all functions).

Goggle Chrome internet browser for assessing virtual lab solution for hands-on

Туре

Face-to-face training

Duration

6 days

Language

en	
Fee	
46,200 INR	

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