SIEMENS

Online Training - SIMATIC S7-400 with SIMATIC Manager (Advance Course) (AS-OL-400A)

Objectives

To make participants aware and familiar with:
- SIMATIC S7-400 automation system
- STEP7 Classic software (SIMATIC Manager)
- Advance programming concepts in STEP7
- Troubleshooting of S7-400 system

Target Group

- Service engineers
- Programmers
- Commissioning engineers
- Maintenance engineers

Content

Hardware topics
- System overview of SIMATIC controller families
- SIMATIC S7-400 family in detail
- Hardware configuration of S7-400 controller in STEP7
- Module installation and wiring

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

Software and Programming concepts
- Linear v/s structured programming approach
- Effective programming using function and function blocks
- Use and need of data blocks
- Types of data blocks
- Multiple instance programming
- Complex data types
- Programming of Real Time Clock(RTC)
- Jump instructions
- Overview of indirect addressing
- Concept of Organization blocks

Communication - Explanation and demo only
- S7-400 controller with remote station on Profinet(PN)/Profibus DP protocol

Hardware redundancy in S7-400 – Explanation and demo only
- Concept of single fault tolerant hardware redundant systems
- S7-400H configuration
- Organization blocks to deal with H system

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
- SIMATIC S7-400 Basic course is highly recommended
- SOFTWARE VERSION: STEP7 v5.6 Professional SR2
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

Type

Online-Training

Duration

3 days

Language

en

Fee

22,500 INR
18% GST additional on Course fee