SIEMENS

PCS7 System Engineering 1 - Virtual (SCT-PCOILSYSE1D)

Global Reference

SIMATIC PCS 7 System Course (ST-PCS7SYS)

Type

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

25 Hours (Schedule varies)
2.5 CEUs

Target Group

- Engineer

Short Description

This virtual, instructor led course is designed for controls engineers who are responsible for project design, development and commissioning a PCS7 system. The goals of this course are to aggressively help the student learn a basic system configuration and project design using standard system tools and libraries. This course begins with the definition of a typical project and planning the system architecture. The students will then actively build, test, and debug a simple PCS7 process system exploring the Automation Station, Engineering Station, and Operator Station engineering environments. Interactive lab exercises are used to build experience with system engineering, process optimization and common troubleshooting. Access to fully functional software, virtual tools, and exercises are provided through a cloud-based application.

Objectives

- Define the requirements and components of a PCS7 system solution
- Configure a Multi project complete with Component and Plant Hierarchy
- Configure basic Continuous Function Charts using standard system tools and libraries
- Configure basic Sequential Function Charts using standard system tools and libraries
- Configure a basic Operator Station configuration using standard system tools and tag interfacing
- Configure and test basic network communications including, Ethernet and PROFIBUS DP
- Perform a basic system check out using standard system tools and diagnostics
- Use the Help, Documentation and On-line tools
- Perform basic system administration and project management functions

Content

- Introduction
- PCS 7 Documentation and Online Support
- Requirements and Functional Process Description
- System Design and Component Specification
- Project setup
- Station and network configuration
- Connection to the process

- Basics control functions
- Basics Operating and Monitoring
- Basics Automatic Mode Control

Language

English