Process Automation - PCS7 PCS7 Certified Engineer Testing

General Information

Course Code: SCT-PCS7CT2A Length: 6 Hours

Audience

This Siemens Certified PCS7 Engineer Exam is intended for experienced PCS7 engineers who have met the prerequisites below.

Prerequisites

- PCS7 System Engineering 1 or PCS7 System Engineering 1 - Virtual
- PCS7 System Engineering 2 or PCS7 System Engineering 2 - Virtual
- Pass PCS7 Basic Engineer Test (SCT-PCS7CT1A)
- PCS7 OS Advanced Engineering (SCT-PCOSCP2B)
- PCS7 AS Advanced Engineering (SCT-PCSASE1B)

Profile

This is a comprehensive performance exam designed to assess the skills of a Certified PCS7 Engineer. The examinee will be required to create and configure a proper PCS 7 Multiproject based on a set of instructions and requirements. This is a practical, skills-based certification test covering topics taught during PCS7 Engineering 1, Engineering 2, OS Advanced and AS Advanced courses.

Topics

- 1. PCS7 Basic Engineer (SCT-PCS7CT1A) topics
- 2. PCS7 Project handling
 - a. Archiving and retrieving a project, library or multi project
 - b. Multiproject and multi-user engineering
 - c. Setting up a Multiproject
 - d. The Master data library
 - e. Initial settings of SIMATIC Manager
 - f. Initial Plant Hierarchy Settings
 - g. Compilation
 - h. Component View and Plant View
 - i. Time synchronization
 - j. OS Server simulation on the ES with AS data
- 3. Automation System
 - a. Distributed IO with PROFIBUS
 - b. Basics for charts and blocks
 - c. Structured block parameters
 - d. Organization blocks
 - e. Run Sequence
 - f. Process Image Partition (PIP)
 - g. Driver Blocks
 - h. Configuration in Run (Cir)
 - i. Symbolic Naming
 - j. The Import Export Assistant (IEA)
- 4. Station and network configuration
 - a. PC Station Configuration
 - b. AS Station Configuration in the project
 - c. OS-AS Connections
 - d. Adding a Process Historian to the Multiproject
- 5. OS System
 - a. User administration
 - b. Picture navigation
 - c. OS Project Editor
 - d. Modification of Block Icons
 - e. Alarms
 - f. Smart Alarm hiding
 - g. Status Displays
 - h. Archive configuration
 - i. Lifebeat Monitoring
- 6. Server-Client System
 - a. System architecture
 - b. Configuration Steps
 - c. OS Server Redundancy
 - d. Reference Clients
 - e. Generate and assign Server Data
 - f. "Standard Server", "Preferred Server"
- 7. SFC Advanced
 - a. How to link CFC and SFC
 - b. The operating state logic in SFC
 - c. Sequential control with SFC
 - d. SFC Sequences