

## PCS7 System Operator

### General Information

Course Code: SCT-PCOILPCSU1C  
Length: 6 Hours

### Audience

This course targets PCS7 system operators, production supervisors, and administrative staff who require a working knowledge of the system. Additionally, anyone in need of building a basic, operational understanding of the PCS7 process control system.

### Profile

0.6 CEUs (Continuing Education Credits)

This course provides the student with a working exposure to the PCS7 OS control system. Using a prebuilt Siemens demo project, the students will learn PCS7 system operational functions and procedures in a safe and controlled SIMULATED plant environment. All core operational tasks and system tools are discussed and practiced by the students. Typical operator system inputs, acknowledgments, control and monitoring tasks are included. This course is a hands-on curriculum working with a typical simulated production process.

This is a live, instructor led, on-line course delivered in two hour learning modules through an innovative web application. Access to fully functional PCS7 software will be provided to the student through a cloud based application. Students are encouraged to complete assigned lab exercises during and after each session to reinforce the learning modules throughout the week. Professional Siemens instructors will also be available to answer student questions outside of scheduled class times.

### Objectives

*Upon completion of this course, the student shall be able to:*

- Identify the PCS7 control system architecture
- Navigate the OS system screen hierarchy
- Control and monitor a production process
- Navigate the system keysets and functions
- Access the Trending and Messaging systems
- Create / access the Reports and Archive systems

### Topics

1. PCS7 Overview
2. Demo Project Screen Review
  - a. Project overview
  - b. Graphic displays of the Operator Station
3. PCS7 OS Process Mode
  - a. User Interface
  - b. Overview Area
  - c. Operator control functions
  - d. Work Area
  - e. Keyset Area
  - f. Window Types and the Picture Tree
4. System Operator Inputs
  - a. Operator Inputs Overview
  - b. Log on - Log off and passwords
  - c. System Inputs
5. Graphic System Control
  - a. Functions and Outputs
  - b. Process Pictures
  - c. Picture Elements
  - d. Process Controls
  - e. Overview Area Inputs
  - f. Button Area Inputs
  - g. Process Picture Control
6. Trend System
  - a. Trend functions and outputs
  - b. Managing Trend groups
  - c. Creating new Trends
7. Message System
  - a. Functions and outputs of the Message System
  - b. Structures and States of Messages
  - c. PCS7 Message List
  - d. Message system filters and permissions
  - e. Acknowledgments
  - f. Operator Control Functions
8. Functions and Outputs of the Report System
9. Archive System
  - a. Functions and outputs of the Archive System
  - b. Process Values, Messages and Reports
  - c. Trends Graphs
  - d. Message Lists
  - e. StoragePlus Web Viewer (optional)
  - f. Exporting Process Values and Messages
  - g. Archive time periods