PROCESS AUTOMATION

SIMATIC PCS 7 Service | ST-PCS7SRV | 4 days

DESCRIPTION/OBJECTIVE

The course is designed for personnel whose main area of activity is the care, servicing and maintenance of existing installations with SIMATIC PCS 7 control systems.

The focus is on typical servicing skills such as replacing wear parts and obtaining diagnostics data.

The course provides you with basic knowledge of the SIMATIC PCS 7 process control system and an introduction to the processes of SIMATIC PCS 7 Asset Management

Through practical exercises on training equipment on which you will perform the work you would also carry out during live operation, you will be able to put your newly acquired theoretical knowledge to practice. This will enhance your learning success.

When you have completed this course, you will be in a position to quickly obtain comprehensive diagnostics data of a running SIMATIC PCS 7 system and will be able to carry out simple maintenance work without stopping the installation.

In this way, you will enable downtime to be reduced and this will increase the efficiency of your automation system.

REQUIREMENTS

Basic knowledge of process control technology, open-loop and closed-loop control technology and of handling Windows applications.

TARGET GROUP

- Maintenance personnel
- Service personnel
- Operators

CONTENT

- Initial activities when servicing a running system
- SIMATIC PCS 7 documentation and online support
- Basics of SIMATIC PCS 7
- Basics of fieldbus systems used
- Procurement of diagnostics data with the SIMATIC diagnostics tool
- Introduction to integrated asset management with SIMATIC PCS 7
- Reading out diagnostics data on the SIMATIC PCS 7 hardware
- Exchanging modules and components during running operation
- Handling data and project backups and creating and importing backup images

ADDITIONAL COMMENTS

In this course you will work with the SIMATIC STEP 7 V5.x software, PCS.

SIMATIC PCS 7 System | ST-PCS7SYS | 5 days

DESCRIPTION/OBJECTIVE

In this course you will learn how to implement the diversity of engineering possibilities in a structured and efficient way with SIMATIC PCS 7 process control system.

By doing exercises on original SIMATIC PCS 7 training units, you will implement software for the process automation of a plant right up to the HMI level. Features of SIMATIC PCS 7 such as integration of all subsystems, plant-oriented engineering, data management and project management are supplemented by advanced functions that enable efficient and cost-effective engineering. Utilize the benefits of Totally Integrated Automation (TIA) for yourself and learn how to get an integrated view of your plant! Because of this integration you will be able to diagnose faults quickly and correct them with safely.

REQUIREMENTS

Basic knowledge of process control technology, open-loop and closed-loop control technology and of handling Windows applications.

TARGET GROUP

- Maintenance personnel
- Service personnel
- Operators

CONTENT

- Managing the project data in the SIMATIC Manager
- Station and network configuration
- Configuration of AS functions in CFC
- Configuration of monitoring and controlling in the OS
- Configuration of sequences in SFC
- Configuration of Server-Client Structure
- Multiproject Engineering

Field Instrumentation - Basic Service Training
| SITRAN-SERV | 3 days

DESCRIPTION/ OBJECTIVE

Combining hands-on tutorials with theory sessions, this course teaches participants the principles of field instrumentation, including pressure and temperature measurement and flow technologies. Working with the PI product portfolio, students gain an understanding of common applications, troubleshooting, customer requirements, and how to select a suitable product.

REQUIREMENTS

Basic knowledge of process control technology, open-loop and closed-loop control technology and of handling Windows applications.

TARGET GROUP

- Maintenance personnel
- Service personnel
- Operators

CONTENT

Pressure

- Introduction to pressure principles and technology
- Pressure terminology
- Programming
- Common applications
- Maintenance and troubleshooting

Temperature

- Theory
- Transmitter design
- Programming temperature diagnostics

Flow meter

- Introduction to flow meter principles
- Flow meter technology
- Programming and initialization
- Applications
- Maintenance and troubleshooting