



Training Course:
DCS Control System SPPA-T3000 – Operation,
Diagnostics, and Engineering Tools

12 - 16 October 2025
In-House

Training Course: DCS Control System SPPA-T3000 – Operation, Diagnostics, and Engineering Tools

Training Course code: EN235980 From: 12 - 16 October 2025 Venue: In-House - Training Course Fees: – Euro

Introduction

This comprehensive training program is designed to provide participants with the essential knowledge and hands-on skills required to operate, troubleshoot, and engineer using the [SPPA-T3000 Distributed Control System DCS](#). The course focuses on the system's architecture, diagnostic functions, engineering displays, and tools essential for ensuring optimal plant performance. Participants will explore the full functionality of SPPA-T3000 including dynamic logic tracing, redundancy handling, periphery management, signal engineering, HMI utilities, and practical troubleshooting using a simulated process environment. The program integrates real-world case-based learning to strengthen participants' abilities in analyzing faults, reading logic, and applying system tools for efficient control room operations.

Target Audience

- DCS Operators and Engineers
- Instrumentation & Control Engineers
- Electrical and Automation Technicians
- Process and System Engineers
- Maintenance Engineers working on SPPA-T3000 systems
- Engineering Supervisors and Technical Support Staff

Objectives

By the end of the program, participants will be able to:

- Understand the complete architecture and core functions of SPPA-T3000
- Operate and navigate plant displays, faceplates, trends, and alarm systems
- Interpret and trace signal paths, identify faults using logic diagrams and diagnostic tools
- Perform engineering functions including signal configuration, periphery setup, and runtime container usage
- Describe and use key elements of HMI utilities and controller tools for fault tracing
- Read function diagrams clearly and differentiate between control symbols
- Apply structured methods for identifying, isolating, and resolving system disturbances

- Execute practical exercises using simulated environments for real-time application

Training Outlines

Day 1:

System Introduction and Architecture

- Introduction to the SPPA-T3000 Control System
- Overview of Hardware & Software Architecture
- Servers, Bus Systems, and Redundancy Concepts
- Network Architecture and Communication Methods
- Runtime Containers and Peripheral Structures

Day 2:

Diagnostics and Signal Management

- Dynamized Function Diagrams and Signal Tracing
- Signal Forcing, Inheritance, and Identifiers
- Diagnostic Tools for Operational Insights
- Fault Detection and Symbol Interpretation
- Using Logic for Fault Finding and Analysis

Day 3:

HMI Operation and Display Navigation

- Operating Plant Displays and Navigation Techniques
- Faceplates, Set-points, and System Trends
- Alarms: Types, Configuration, and Handling
- XY Diagrams for Real-Time Monitoring
- Hands-on Navigation in Simulated Plant Environments

Day 4:

Engineering and Control Functions

- Engineering Environment Overview
- Creating and Editing Function Diagrams
- Configuring Plant Displays and Automation Elements
- Binary and Analog Signal Engineering
- 2oo3 Logic and Redundancy in Safety Loops

Day 5:

Practical Applications and Troubleshooting

- Hands-on Exercises with Process Simulation
- Fault Simulation Scenarios and Troubleshooting
- Reading Logic Clearly: Symbols and Structures
- HMI Utilities for Controllers, Set-points, and Trends
- Final Review, Q&A, and Practical Demonstration

Registration form on the Training Course: DCS Control System SPPA-T3000 □ Operation, Diagnostics, and Engineering Tools

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