

## S357

# Symphony Plus - DCS System Configuration



Learn the configuration and features of the Symphony Plus hardware, engineering tools, and operator console used in a Symphony Plus system.

### Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab.

### Student Profile

This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

### Prerequisites

Students shall have a basic knowledge of process control fundamentals. They should also have a basic understanding of Microsoft Windows operating systems. Students shall have attended the Symphony Plus Sales and Commercial Training 101 prior to taking the S357.

### Course objectives

Upon completion of this course the participants will be able to:

- Explain the Symphony Plus architecture and the function of the different components
- Manage users with the User Management tool
- Create a new S+ Engineering project Create a new Control Engineering project
- Establish Symphony Plus Communications
- Set Up Symphony Plus Controllers
- Flash Firmware to Symphony Plus Hardware
- Configure and Inspect the Harmony controllers

- Create a Control Logic Document (CLD)
- Use System Topology tool
- Utilize reports, trends, and live data to evaluate control loop and controller behavior
- Verify Configuration files
- Create User folders, Shapes and Macros for use in CLD development
- Setup a Control Logic Template (CLT)
- Use Bulk Engineering tool
- Configure Symphony Plus I/O Modules
- Navigate within the Symphony Plus Operation Explorer
- Check and configure Server Redundancy
- Import a Harmony tag database
- Manage and configure alarm and events
- Set up the historical data collection and configure trend displays
- Configure process graphic displays and define navigation links
- Create graphic elements
- Configure security user accounts
- Backup and restore the Symphony Plus system
- Set Up S+ Operations Web Client

### Duration

The duration is 9.5 days

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**Course Outline**

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Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"><li>• Course Overview</li><li>• Symphony Plus architecture review</li><li>• Install S+ Engineering Workbench</li><li>• Workbench Layout</li><li>• User Management</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Symphony Plus Communications</li><li>• Symphony Plus Controllers</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• VPNI Setup</li><li>• Control Engineering Project</li><li>• Symphony Plus Firmware</li><li>• Harmony Function Codes</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• I/O Configuration</li><li>• CLD Configuration</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Online Configuration</li><li>• Monitor/Trend CLD, Verify</li><li>• System Topology</li><li>• Shapes &amp; Macros</li><li>• Configuration Logic Templates (CLT)</li><li>• Hands-on lab: Exercises</li></ul>
Day 6	Day 7	Day 8	Day 9	Day 10
<ul style="list-style-type: none"><li>• Bulk Engineering Tool</li><li>• S+ Engineering Tag List</li><li>• Symphony Plus Operations Explorer</li><li>• Tag Database Integration</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• S+ Operations Redundancy</li><li>• Historical Data Collection</li><li>• Trend Displays</li><li>• Alarms and Events</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Graphic Displays</li><li>• Graphic Elements</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Security</li><li>• Operator Workplace</li><li>• Backup and Restore</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Web Client</li><li>• Hands-on lab: Exercises</li><li>• Questions &amp; Answers</li></ul>

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