

# S311

## SD Series - Hardware Configuration



Become familiar with the Symphony Plus architecture and standard Symphony Plus hardware components.

### 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 activities.

### Student Profile

This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers, system integrators. It is also a prerequisite for students that are planning to attend the S312 course.

### Prerequisites

Students shall have a basic knowledge of process control fundamentals. They should also have a basic understanding of Microsoft Windows operating systems.

### Course objectives

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

- Recognize the Symphony Plus architecture and the function of the different components
- Establish Symphony Plus Communications
- Set Up Symphony Plus Controllers

- Establish Profibus Communications
- Flash Firmware to Symphony Plus Hardware
- Establish Fiber Optic Communications
- Configure Symphony Plus I/O Modules
- Create a Control Engineering Project
- Utilize basic Function Codes
- Perform On-Line Configuration

### Main topics

- Symphony Plus Harmony Architecture
- Symphony Plus Communications
- Symphony Plus Harmony Controllers
- Symphony Plus Engineering Projects
- Symphony Plus I/O Modules
- Symphony Plus I/O Module Configuration
- Symphony Plus Profibus
- Symphony Plus Fiber Optic
- Online Configuration

### Duration

The duration is 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</li><li>• Symphony Plus Communications</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Symphony Plus Controllers</li><li>• Control Engineering Project</li><li>• Firmware</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Symphony Plus Profibus</li><li>• Symphony Plus Fiber Optic</li><li>• Symphony Plus I/O Module Configuration</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• SD Series I/O Configuration</li><li>• Function Codes</li><li>• Hands-on lab: Exercises</li></ul>	<ul style="list-style-type: none"><li>• Online Configuration</li><li>• Hands-on lab: Exercises</li><li>• Questions &amp; Answers</li></ul>

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