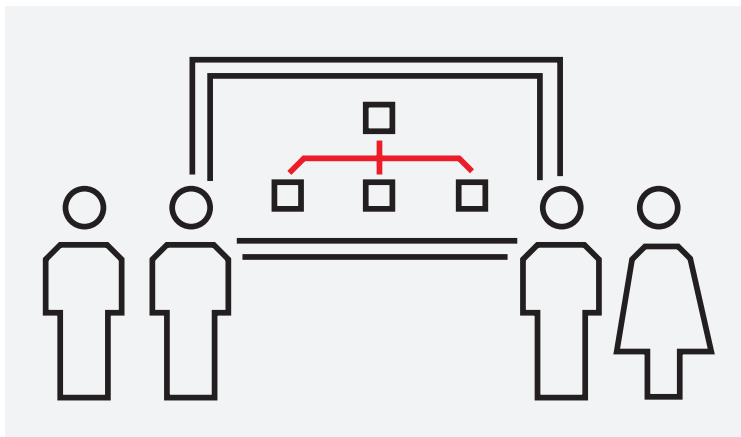


S345

Symphony Plus – Condition Monitoring



The goal of this course is to provide an accelerated overview to learn the configuration and features of the S+ Condition Monitoring products including the MCM800 module and Analyst software.

Learning objectives

Upon completion of this course, students will be able to:

- Install the MCM800 on a standard DIN rail
- Properly connect power and ground
- Set-up the S+ MCM800 module
- Setup the Profibus/Modbus connection and addresses
- Connect the module to an Ethernet network
- Have a general understanding the different type of sensors used for Condition Monitoring
- Connect each sensor type to the module
- Establish an Ethernet Connection for module communication
- Understand basic IP addressing
- Setup a computer to communicate with an MCM800
- Establish a Profibus connection for module communication
- Setup a Modbus connection
- Configure the MCM800 module settings
- Configure the channel parameters
- Understand the parameter options
- Configure each channel type
- Use the Configuration Tool to configure the module
- Use the Analyst software to configuration the module
- Understand the Analyst Layout tools
- Understand all the options on the Menu Bar
- Understand all the options on the Tool Bar
- Become familiar with each plot type
- Navigate through the application software
- Understand how to use Analyst

- Understand how to generate plots in Analyst
- Understand what to look for to identify problems

Participant profile

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

Prerequisites

Students should have a general understanding of process automation, vibration monitoring and basic knowledge of control systems.

Topics

MCM800

- System architecture
- Module setup
- Sensor types and uses
- Module communications
- Module configuration

Analyst

- Installation
- System configuration
- Module configuration
- Overview of Menu Bar
- Overview of Tool Bar
- Accessing Process Variables
- Capturing waveforms
- Summary of plot types
- Review of plot options
- Evaluate plot data

Course type and methods

This is an instructor led course with interactive classroom discussions. Special arrangements can be made to customize the course materail. Hands-on exercises depend on the venue and availability of hardware.

Duration

The duration is 1 to 2 days for MCM800 training, and 1 to 4 days for Analyst training. The sample course listed on the following page includes two days for MCM800 training and two days for Analyst training.

Due to a variety of audiences, this course may be customized to address the needs of the participants. A more indepth training session may be requested.

Agenda

Day 1 – MCM800	Day 2 – MCM800	Day 3 – Analyst	Day 4 – Analyst
Course overview	Profibus Configuration	Overview	Using Analyst
System architecture	Modbus RTU	Installation	Sheet tab
Module installation	Modbus/TCP	Menu Bar	Plots
Review sensor types	Module Setup	Icon Bar	Recognize a problem
Connecting the sensors to the module	Parameters options	Tool Bar	Where to look
Ethernet interface	Function configuration	System configuration	Analyze Process Variable data
Hands-on: Exercises*	Troubleshooting	Module configuration	Analyst Waveform data
	Hands-on: Exercises*	Project Explorer	Hands-on: Exercises*
		Hands-on: Exercises*	

* Note: Hands-on exercises depend on venue and availability of hardware.