FI700 – ACS350/550/800
Profibus DP Fieldbus

Course Type

Classroom course with hands-on lab activities led by an instructor.

Course Duration

The course duration is 2 days.

Course goal

The goal of this course is to teach students to understand Profibus DP fundaments and hardware, PLC- master's configuration and ACS350/550/800-drives parameterization for Profibus DP use.

Students are also introduced the fundaments of Profinet and how the configuration differs from Profibus.

Student profile

This course is intended for electricians, technicians and engineers, who design, install and service ACS350/550/800-drives for Profibus DP use.

Prerequisites

Prios to attending this course, students should have
- Experience in parameterization of ACS350/550/800-drives

Description

This contains lectures and hand-on exercise with PLC-masters and ACS350/550/800-drives.

Course Objectives

Upon completion of this course, students will be able to:
- Describe the Profibus DP Fieldbus structure and function
- Have an overwiev how to configure drive to Simatic S7 Profinet I/O- Controller.
- Configure PLC-master (AC500 and Siemens Simatic S7) to Profibus DP use
- Connect and parameterize ACS350/550/800-drives to Profibus DP use
- Have an overview to use Fieldbus analyser

Main topics

- Profibus DP fundaments
- Frequency converters (ACS350/550/800) in Fieldbus-use
- Configuration of PLC-master (AC500 and Siemens Simatic S7)
- Profibus DPV1, characteristics
- Fieldbus analyser (Profitrace), characteristics and use

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ABB

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Day 1

09:00   Course opening

09:10   Profibus DP fundaments

09:30   Coffee break

09:50   Profibus DP fundaments continues

11:15   Lunch

12:00   Frequency converter in Fieldbus-use
(ACS350/550/800)

- Connections
- Parametrization

13:40   Coffee break

14:00   Configuration ofPLC-master (AC500 and S7)

15:00   Exercise

- AC500 and S7 configuration

16:00   End of the day

Day 2

08:30   Profinet I/O

- Fundaments and configuration

09:30   Coffee break

09:50   Exercise

- AC500 and S7 configuration
- Controlling and monitoring of frequency converter via Profibus/ Profinet (PPO 3)

11:00   Lunch

11:45   Exercise

- Controlling and monitoring of frequency converter via Profibus (PPO 4/PPO 5)

13:40   Coffee break

14:00   Profibus DPV1: Characteristics

14:30   Fieldbus analyser (Profitrace):
Characteristics and use

15:45   Course summary

16:00   End of the course