Course goal

The course goal is to realize exercises for maintenance, commissioning and installation tasks of the hardware and software modules of the hybrid process control system Freelance.

Learning objectives

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

■ Setup the Freelance software and optimize system settings for the Windows® operating system.

■ Service the Freelance system.

■ Analyze and optimize memory management and tasking.

■ Use system variables for system diagnosis

■ Setup and troubleshoot a communication link via OPC.

Participant profile

Installation, commissioning, service and system management personnel of the hybrid process control system Freelance.

Prerequisites

General knowledge of the Windows® operating system is absolutely necessary. The participants are well acquainted with the topics of the hybrid process control system Freelance course T560.

Topics

■ Software setup and installation check

■ Optimize operating system parameters for the use with the Freelance system

■ Diagnosis methods: Serial and web based

■ System time synchronization

■ System redundancy

■ Module replacement: AC 700F and AC 800F

■ System error messages: Message text and sources

■ System variables: Memory management, Tasking

■ Installation OPC server – client structure

■ Microsoft® Excel based reports

■ Backup and Restore of project data

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. This course imparts the knowledge of installation and system management of the Freelance system based on a lot of examples and exercises. Key aspects are Freelance system diagnostics and troubleshooting.

Duration

The duration is 4 days.

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Course outline

Day 1	Day 2	Day 3	Day 4
■ Welcome and introduction of the participants ■ Course Overview ■ Optimize system settings for the Windows® operating system ■ Setup the Freelance software	■ Diagnosis methods: Serial and web based ■ System time synchronization ■ Module replacement: AC 700F and AC 800F ■ Redundancy	■ System error messages: Message text and sources ■ System variables: Memory management, Tasking ■ Setup and commissioning of the Freelance OPC Server and Client	■ Control Builder F Viewer: Setup and commissioning ■ Microsoft® Excel based reports ■ Backup and Restore of project data

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