Course description

CN351
AC800F / Freelance 2000 Engineering (Above Version 8)

Course goal

The goal of this course is to engineer a Freelance 800F system and to become familiar with configuration and commissioning tasks

Learning objectives

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

- Describe the network structure in the Freelance 800F architecture
- Describe the functionality of the major system components
- Describe the structure of application programs i.e. variables, programs, tasks
- Configure and maintain objects in Control Builder F
- Configure the AC 800F controller and establish fieldbus connectivity to corresponding Remote I/O's
- Create and maintain standard and user specific function blocks
- Load the controller and work in online mode
- Create and modify standard displays
- Manage and configure alarm and events
- Create and maintain logs and system documentation
- Setup trends and configure historical data collection
- Interchange Freelance 800F data with other Freelance 800F systems

Participant profile

This training is targeted to Freelance 800F users and system integrators who need to get a comprehensive overview about the Freelance 800F system capabilities

Prerequisites

Students shall know the fundamentals of working with Distributed Control Systems and have basic knowledge of IEC 61131-3 programming and of working with Microsoft Windows XP

Topics

- Freelance 800F architecture
- Control Builder F
- Application structures
- AC 800F Hardware
- OPC connectivity
- Applications with FBD and ST
- User Function Blocks
- Alarm and Events
- Historian and Trends
- Graphic Displays
- Import / export

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.

Duration

The duration is 10 days.