Course description

T336
System 800xA
Application Programming using PC Device Library

Course goal

The goal of this course is to learn the engineering of a complete control project using the Extended Automation System 800xA with AC 800M controllers using Control Builder as the engineering tool and PC Device Library Object types.

Learning objectives

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

- Learn the PC Device Library basic concepts
- Install PC Device Library, its System Extensions
- Discuss about different Object Types available in PCDL
- Learn the associated Configuration of Device Objects
- Configure standard Device Objects
- Implement PCC on Input and Output Devices
- Describe Group Control with PCC Priority Commands and Interlocks
- Learn the Configuration options available in PCDL Faceplates
- Use PC Device Library Graphic Display Elements
- Use PC Device Library Objects to generate Application Code in Function Designer

Participant profile

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

Prerequisites

Students should have attended T315C & H, shall know the fundamentals of working with Control Systems.

Topics

- Introduction to PC Device Library
- Configuration in PC Device Library
- Project Framework
- Introduction to Object Types
- Priority Commands & Interlocks
- Group Control
- Faceplates
- Graphic Display Elements
- Function Designer

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.

Course duration

The duration is 3 days.

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Course outline

Day 1

- Course overview
- Introduction to PC Device Library
- Configuration in PC Device Library
- Project Framework

Day 2

- Introduction to Object Types

Day 3

- Priority Commands & Interlocks
- Group Control
- Faceplates
- Graphic Display Elements
- Function Designer

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