

E125

System 800xA with AC 800M

Engineering and Methodologies with PCDeviceLib

Workshop goal

Application engineers need an easy to use, high-level library, with the device objects typically used in their control applications. This workshop helps to reduce significantly the engineering hours by learning best practices and engineering methodologies based on PCDeviceLib configuration. The students get a comprehensive look at the suite of PCDeviceLib device objects and learn how to configure them with the CMD editor or using Function Designer.

Learning objectives

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

- Describe the different PCDeviceLib object types and how they are applied in a project
- Use the concepts and features of the PCDeviceLib to create control solutions that are easy to operate and maintain
- Configure well designed control applications with PCDeviceLib objects using CMD editor and Function Designer
- Explain the use of group device control logic
- Describe device modes and states
- Configure and implement a common strategy for priority commands and interlocks (PCC)
- Describe shutdown logic for process device subsystems at various levels
- Explore duty / standby device management
- Create process graphics with graphical elements from PCDeviceLib
- Interpret faceplate and graphical information
- Explain alarm and events generated for devices and actions

Participant profile

This Expert Workshop is targeted to application engineers, service & support engineers, maintenance personnel and project lead engineers.

Prerequisites and recommendations

Students should have attended either the Basic Configuration course T314 or the Engineering course T315 or have knowledge and experience associated with the content of these courses.

The required knowledge can be verified with user assessment module T710e-01.



Workshop type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, hands on sessions and discussion.

Duration

The duration is 4½ days.