

Operator Interface Programming - QuickPanel & View



Instructor-led

Topics

- Describe the basic functions and benefits of a machine level operator interface.
- Identify and navigate the various components of the Machine Edition Development Environment.
- Create, open, and modify View Operator Interface Projects using the various Machine Edition tools.
- Utilize the Panel Editor and drawing tools to generate, animate, and control OI graphical Panels.
- Create Application, Panel, and Button Scripts, utilizing help tools to find commands, keywords, and functions.
- Configure Alarm Groups.
- Log and analyze data.
- Configure security for users and access the advanced features of the View Runtime.
- Configure information for Web Access using Web Publishing.
- Create Custom Web documents for access by remote clients.
- Configure the View Historian Collector to archive device data.
- Download Operator Interface Applications to the QuickPanel+ operator interface.

Course description

The Operator Interface Programming - QuickPanel & View course familiarizes the student with operating in the PAC View Machine Edition development environment, the QuickPanel+ machine level operator interface, creating operator interface graphical panels, writing scripts, configuring alarm & logging schemes, and running Projects on the operator interface device. Students are also introduced to the built-in Data Historian, Web Publishing, and Web Documents. An experienced instructor guides the student using demonstrations and hands on lab exercises.

Who should attend?

This course is designed for programmers, operators, and application designers who are beginning to work with the QuickPanel+ Operator Interface that is programmed using View, who will be tasked with developing, modifying, and maintaining Operator Interface applications.

Are there any pre-requisites?

Participants should be comfortable operating in a Microsoft Windows environment, and have a basic understanding of control fundamentals.

Duration

24 hours

Delivery

Classroom

Onsite

Virtual

Part

7702

7702V

Suggested class size

10 Students





Session 1

Introduction to Operator Interfaces

Basic HMI Types, Benefits of an Operator Interface.
Introduction to QuickPanel+ and to View.
Open HMI Project, Download and Run on QuickPanel+.

Operating PAC Machine Edition

Use the Machine Edition environment and its tools: Navigator, Inspector, Companion, Editor Workspace, Feedback Zone, Data Watch, InfoViewer, & Toolchest.
Use the Toolchest for HMI development.
Create a new Project with Logic and HMI Components.

Session 2

Operating PAC Machine Edition - continued

Download and Run Project Using the Simulator.
Going Online and use the Quick Test.
Download and Run Project on QuickPanel+.
Map the Machine Edition Controller's I/O.

Create an HMI Project

Working with View Targets in a Project.
Configure PLC Access Drivers.
Use Variables shared from a Controller Project.

Session 3

HMI Development Tools

Build Operator Interface Panels using the PAC View Graphic Editor and graphic drawing tools.
Use Basic, Dynamic, Interactive, and Complex graphical objects.
Animate objects and modify their appearance.
Use Indexed Image and Message Grids.
Create and Download an HMI Project Process Summary screen.

Session 4

Scripting

Recognize how to apply scripts.
Find help for scripting language commands, keywords, & functions.
Create Panel, Application, & Touch Animation scripts.
Validate, Run, & Debug an Active Script.

Logging and Analyzing Data

Create Logging Groups.
Assign Project Variables to logging groups.
Use TrendX chart to view logged data.
Create a Chart object and view real-time data.
Configure the View Historian Collector to archive device data.

Session 5

Alarms

Differentiate variable alarm categories.
Create and configure alarm groups.
Assign alarms and alarm limits to Project Variables.
Log Alarm Data and Track Alarm Events.
Set up an alarm history file.

Session 6

Web Publishing and Access

Configure content for Web Access by publishing data.
Create custom Web Documents.
Interact with Project data through remote viewing.

Conversion to QuickPanel+

QuickPanel to QuickPanel+ conversion considerations.
Convert QuickPanel Project to QuickPanel+.



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www.emerson.com/education
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education@emerson.com

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Capacitacion.mexico@emerson.com

Middle East: Mea.education@emerson.com

Europe: Eu.education@emerson.com

Asia Pacific: EducationAP@emerson.com

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