GE
Intelligent Platforms

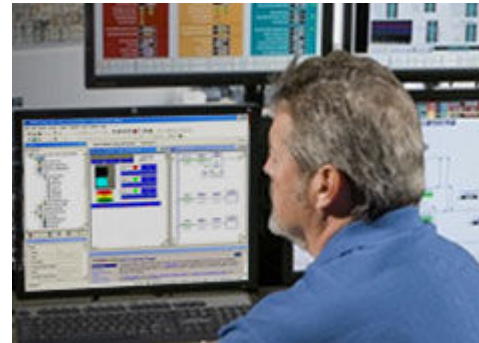# Operator Interface Programming - QuickPanel & View

Course Description

The **Operator Interface Programming - QuickPanel & View** course familiarizes the student with operating in the **Proficy 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 Proficy View, who will be tasked with developing, modifying, and maintaining Operator Interface applications.

Are there any prerequisites?

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

What topics will be covered in this course?

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

- 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 Proficy 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 Details - Classroom - 3 days

Course Length	Suggested Class Size	Class Hours
3 days	10 students	8:00 am - 5:00 pm, daily

Course Agenda

(Schedule and content may vary.)

Day 1	
Morning	**Afternoon**

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

Operating Proficy 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.

Operating Proficy 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.

Day 2	
Morning	**Afternoon**

HMI Development Tools
Build Operator Interface Panels using the Proficy 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.

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.

Day 3	
Morning	**Afternoon**

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.

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+.