

Proficy Logic Developer PC & View Fundamentals

Course Description

The Introduction to **Proficy Logic Developer PC & View Fundamentals** course familiarizes the student with the PC Control development tool used to program. Emphasis is given to understanding and operating in the development environment, understanding the available logic development options, generating programs using ladder logic to communicating with control targets. With View, the students will be creating graphical panels, writing scripts, configuring alarm & logging schemes, and launching the project into View Runtime. Students are also introduced to Networking, Web Access and OPC features. An experienced instructor is provided to guide the student using demonstrations and hands on lab exercises so they are prepared to develop control solutions.

Who Should Attend?

The course is designed for programmers, application designers, and system managers beginning to work with Proficy Logic Developer PC and View who will be tasked with developing, modifying and maintaining the applications.

Are There Any Prerequisites?

The participants should be comfortable operating in a Windows environment and should have a basic understanding controller programming.

What Tasks Will Be Taught in This Class?

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

- Overview an understanding of what PC Control and View is.
- Operate within the Machine Edition Environment.
- Understand what the Toolchest is and what it can do.
- Ladder Logic Programming (LD).
- Configure the PC Logic Controller.
- Configure an I/O driver.
- Configure Graphic Panels in the Panel Editor.
- Configure Application, Panel and Touch scripts using the Script Editor.
- Create Group Alarms.
- Create Logging Groups and configure Logging Strategies.
- Configure security for users and access the advanced features of View Runtime.
- Review Networking and Web Access.
- Review of OPC – setting up a Third Party Access to Machine Edition Servers.

Course Length

4 days

Suggested Class Size

10 students

Class Hours

8:00 am - 5:00 pm, daily



Course Agenda

(Schedule and content may vary.)

Day 1

Morning

Introduction to Logic Developer and View

Brief overview of what LD PC and View is;
Review the Machine Edition Development System features.

Operating Within the ME Environment

An Orientation to Machine Edition, including:
Navigator, Inspector, Companion, Editor Workspace,
Feedback Zone, Data Watch, InfoViewer &, Toolchest

Afternoon

Data Types and Variables

Identify different data types: Counter, date & time, Boolean, DINT, LReal, Step, String, Timer, Time
Understand arrays, constants, elements, modifiers and structures as they pertain to variables; Explain local, global and systems variables.

Toolchest

Introduce the Toolchest; Create Toolchest parts in LD; Understand Custom Structures.

Day 2

Morning

Ladder Logic

Write a simple Ladder Logic Program; Identify and use logic variables; Load and run programs in the Controller.

PC Logic Controller

Overview of the PC Logic Controller
Access the Controller – download logic and go online or offline; Configure the Controller.

Afternoon

PC Logic Controller (cont'd)

Use the Diagnostic Tools System tray application, target diagnostic reports, applying system variables and the NT event log.

Configuring I/O

Explain I/O drivers; Explain how the controller starts, processes and stops an I/O drivers

Day 3

Morning

Development Tool for HMI

Build HMI Panels using the Graphic Editor and Graphic drawing Tools.

Afternoon

Scripting

Create Panel, Application and Touch Animation scripts.

Alarms

Learn about variable alarms and apply them as necessary in the project.

Day 4

Morning

Logging and Analyzing Data

Create and Assign logging groups to the project variables; Use TrendX to view logged data in a chart; Create a Chart object on a graphic panel.

View Runtime

Apply security to the HMI and prepare it for runtime use by operators.

Afternoon

Networking and Web Access

Configure View for network and web access and monitor data remotely.

OPC

Describe how OPC Works, configure OPC Clients and Server links and Configure 3rd Party access to Machine Edition OPC Servers.

