



## **Course # 711 - Proficy™ Logic Developer Machine Edition**

### **Course Description**

The Proficy Logic Developer Machine Edition (PLC for 90/30, 90/70, VersaMax, RX7i and RX3i) course familiarizes the student with the control logic development tool suite used to program the entire family of GE Fanuc industrial control hardware. Emphasis is given to understanding and operating in the development environment, understanding the available logic development options, generating programs using the ladder logic language option and communicating with control target(s) (90/30, 90/70, VersaMax, RX7i and RX3i PLCs). 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?**

This course provides the opportunity for individuals who are or who will be involved in the programming, operation and/or troubleshooting of control systems developed using Proficy Logic Developer (PLC). The course is designed for engineers and programmers beginning to work with Proficy Logic Developer PLC, who will be tasked with developing, modifying and maintaining PLC programs.

### **Are There Any Prerequisites?**

Participants should be comfortable operating in an MS Windows environment, and have a basic understanding of electrical/control fundamentals.

### **What Tasks Will Be Taught in This Class?**

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

- Describe Control System Architecture & Operational Fundamentals
- Describe (Series 90-30 or 90-70 or VersaMax, RX7i or RX3i) Basic System Operation & Components
- Operate Proficy Machine Edition
- Establish and Utilize Communications to the Controller
- Create a New Project - Basic Configuration of the Controller
- Expand Controllers and Describe Specialty Modules
- Create a New Project - A Ladder Logic Program
- Explain Relay and Contact Logic Elements
- Explain Timer and Counter Functions
- Work with Numbers in Relational and Arithmetic Operations
- Work with Data Move and Numerical Operations
- Work with bit operations
- Describe some Advanced Programming Concepts
- Configure OIU & Establish communication with PLC
- Program OIUs - Basic Functionality
- Understand Proficy HMI Basic Features