Logix Studio 5000 Maintenance and Troubleshooting

Course Description

Upon completion of this course, you will be able to troubleshoot a previously operational ControlLogix® system and restore normal operation.

This course adds to your skill set by introducing new tasks such as connecting to a network, interpreting project execution, editing ladder logic online, and more.

You will then be presented with a systematic strategy for diagnosing and troubleshooting a variety of common system errors:

• Controller, I/O, and other hardware problems

• Noise-related problems • Software configuration problems

Target Audience:

Individuals who need to maintain and troubleshoot a ControlLogix or other Logix5000™ system should attend this course.

Pre-requisites:

To successfully complete this course, completion of the Studio 5000 Logix Designer **Level 1: ControlLogix System Fundamentals course** (Course No.) or equivalent experience is required.

Course Duration:

3 days, 7hours/day (from 9:00am to 4:00 pm).

Technical Contents:

• Identifying ControlLogix System Components

• Identifying Logix5000 Systems Communication Networks

• Connecting a Computer to a Communications Network

• Communicating with a Logix5000 Controller .

• Identifying Software Components .

• Interpreting Project Organization and Execution

- Identifying Local IO Tags
- Locating Tags and Monitoring Data
- Interpreting Arrays
- Interpreting Tags of User-Defined Data Types
- Editing Ladder Logic Online
- Identifying Analog I/O Modules
- Forcing I/O and Toggling Bits
- Documenting and Printing Components
- Searching for Project Components
- Troubleshooting and Monitoring a System Using a Trend Chart
- Applying Preventative Maintenance and Troubleshooting Strategies
- Troubleshooting Noise-Related Problem
- Troubleshooting Power Supply Problems
- Troubleshooting Digital I/O Problems
- Troubleshooting Analog I/O Problems
- Troubleshooting Controller Problems

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. Exercises focus on the skills introduced in each lesson and are performed on ControlLogix workstation. Integrated practices combine and practice several key skills at once.

The basic skills taught in this course apply to all Logix5000 platforms; you can apply what you have learned to the specific platform used in your plant.