



GuardLogix Maintenance and Troubleshooting

Course Code: SAF-LOG102

Duration: 2 Days

Course Purpose:

This course provides you with the necessary resources and hands-on practice to efficiently troubleshoot a previously operational GuardLogix system. You will be introduced to GuardLogix system hardware and software components, functionality, terminology, and safety standards. You will also gain experience interpreting safety instructions using RSLogix™ 5000 software. You will have hands-on opportunities to troubleshoot GuardLogix system components and CompactBlock™ Guard I/O™ modules. You will gain experience monitoring tag values and identifying I/O tags. In addition, you will learn how to search and print GuardLogix project components to help troubleshoot a project.

Who Should Attend:

Individuals who need to monitor and troubleshoot RSLogix 5000 projects for GuardLogix controllers should attend this course.

Course Outline:

Day 1

- Understanding GuardLogix Controller Safety Operation
- Identifying GuardLogix Project Components
- Identifying GuardLogix Safety Signatures and Safety Lock/Unlock States
- Identifying I/O Tags in a GuardLogix System
- Monitoring GuardLogix Tag Values

Day 2

- Searching and Printing GuardLogix Project Components
- Troubleshooting and Replacing GuardLogix System Components
- Troubleshooting and Replacing GuardLogix CompactBlock Guard I/O Modules
- Interpreting Safety Instructions in a GuardLogix Project

Prerequisites:

To successfully complete this course, the following prerequisites are required:

- Ability to perform basic Microsoft® Windows® tasks
- Completion of the Level 1: RSLogix 5000 ControlLogix® System Fundamentals (Course No. CCP146) or equivalent experience with RSLogix 5000 software
- General experience with industrial controls

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Student Materials:

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- Student Manual, which contains the topical outlines and exercises. Use this manual to follow presentations, take notes, and work through the exercises.
- GuardLogix Documentation Reference Guide, which contains several relevant technical publications. This searchable, electronic resource contains the most frequently referenced hardware and software information and is a quick and efficient on-the-job resource. Wiring diagrams of the GuardLogix controller and CompactBlock Guard I/O modules are also included.

Hands-On Practice:

Throughout the course, you will have the opportunity to practice skills that you have learned through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson. Once you learn the basic components of a GuardLogix system, you will monitor and troubleshoot a working project using RSLogix 5000 software. Specifically, you will interpret safety instructions, such as ESTOP, light curtains, and five position mode switch instructions, and monitor tag values. You will also troubleshoot GuardLogix system components and CompactBlock™ Guard I/O™ modules. You will also have an opportunity to learn how to identify whether a Safety Signature exists for a project and if a GuardLogix controller is safety locked.

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