

# GuardLogix® Controllers

## GuardLogix Fundamentals and Troubleshooting Course Description

### COURSE AGENDA

#### *Day 1*

- Understanding GuardLogix Controller Safety Operation
- Identifying GuardLogix System Hardware Components
- Identifying GuardLogix Project Components
- Downloading and Uploading a GuardLogix Project
- Troubleshooting GuardLogix Controller Components
- Troubleshooting and Replacing GuardLogix CompactBlock Guard I/O Safety Modules



### COURSE NUMBER: SAF-LOG103

#### *Course Purpose*

This course will assist you in developing and building a solid foundation with a fundamental knowledge of a GuardLogix system. Upon completion of this course, you should be able to efficiently troubleshoot a previously operational GuardLogix system.

You will have the opportunity to develop and practice these skills by:

- Learning basic GuardLogix concepts and terminology used with:
  - Controller functionality and circuitry
  - System hardware
  - RSLogix 5000 software
- Troubleshooting a GuardLogix project:
  - Troubleshooting GuardLogix controller components
  - Troubleshooting and Replacing GuardLogix CompactBlock Guard I/O safety modules
  - Monitoring safety tag values

#### *Who Should Attend*

This course is intended for individuals who need to monitor and troubleshoot RSLogix 5000 projects and hardware for GuardLogix controllers.

### ***Prerequisites***

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

- Ability to perform basic Microsoft® Windows® tasks
- Completion of the *RSLogix 5000 Level 1: ControlLogix® System Fundamentals* course (Course No. CCP146) and *RSLogix Level 3: ControlLogix Maintenance and Troubleshooting* course (Course No. CCP153) or equivalent experience with RSLogix 5000 software
- General experience with industrial controls

### ***Technology Requirements***

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

### ***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 key concepts, definitions, and examples presented in the course and includes the hands-on 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 safety modules are also included.

### ***Hands-On Practice***

Throughout the course, you will have the opportunity to practice skills you have learned through a variety of hands-on exercises:

- Exercises focus on the skills introduced in each lesson.
- Exercises are performed on a GuardLogix workstation.

### ***Course Length***

This is a one-day course.

### ***Course Number***

The course number is SAF-LOG103.

### ***IACET CEUs***

CEUs Awarded: 0.7



### ***To Register***

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at <http://www.rockwellautomation.com/training>

**[www.rockwellautomation.com](http://www.rockwellautomation.com)**

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