

GuardLogix/Studio 5000

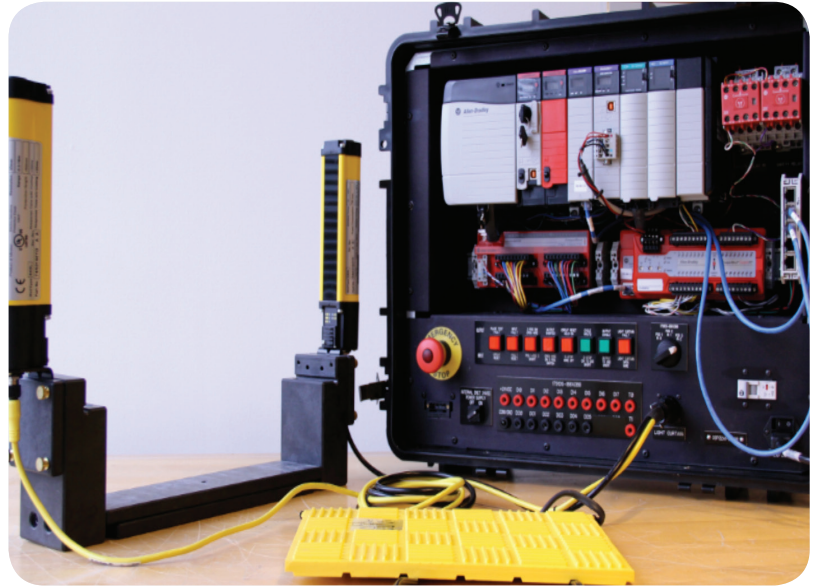


GuardLogix Fundamentals and Troubleshooting Course Description

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
 - Logix Designer application
- Troubleshooting a GuardLogix project:
 - Troubleshooting GuardLogix controller components
 - Troubleshooting and Replacing GuardLogix CompactBlock™ Guard I/O™ safety modules
 - Monitoring safety tag values

LISTEN.
THINK.
SOLVE.®

Who Should Attend

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

Prerequisites

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

- Ability to perform basic Microsoft Windows tasks
- Understand international machine safety standards
- Completion of the following courses or equivalent experience with Studio 5000 Logix Designer:
 - *Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals* (Course Number CCP146)
 - *Studio 5000 Logix Designer Level 2: ControlLogix Maintenance and Troubleshooting* (Course Number CCP153)
- 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 the students' learning experience, the following materials are provided as part of the course package:

- *Student Manual*:
 - Contains the topical outlines and exercises
 - Used to follow presentations, take notes, and work through exercises

Hands-On Practice

Throughout the course, you will have the opportunity to practice skills you have learned through a variety of hands-on exercises using a GuardLogix workstation (Catalog Number ABT-TDGRDLX1-B). Exercises focus on the skills introduced in each lesson.

Next Learning Level

Once you have an understanding of the topics and skills covered in this course, you may want to attend specific safety training such as:

- *Functional Safety for Machinery Technician Certification (TÜV Rheinland)* (Course Number SAF-TUV0T)
- *GuardLogix Application Development* (Course Number SAF-LOG101)

Course Length

This is a one-day course

IACET CEUs

Rockwell Automation is authorized by IACET to offer 0.7 CEUs for this program.



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>

Rockwell Automation is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.

[Click here](#) to view the Rockwell Automation Certificate of Accreditation.

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www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

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GuardLogix/Studio 5000

GuardLogix Application Development Course Description



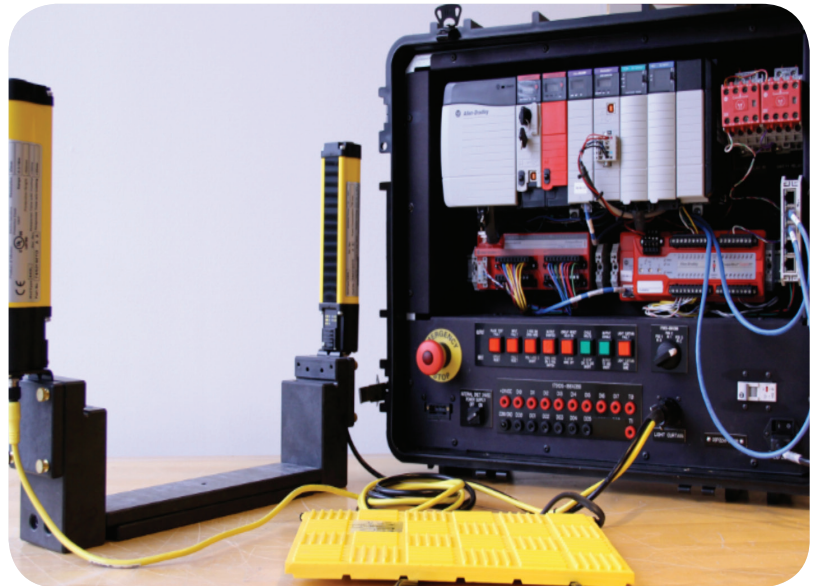
Course Agenda

Day 1

- Creating a New GuardLogix Project Using the Logix Designer Application
- Configuring CompactBlock Guard I/O Safety Modules for a GuardLogix Project Using the Logix Designer Application
- Configuring a GuardLogix Controller to Produce/Consume Safety Data over an EtherNet/IP Network
- Getting CompactBlock Guard I/O Point Status Information Via Explicit Messaging Using the Logix Designer Application
- Configuring GuardLogix Controller Safety Options

Day 2

- Programming a Dual-Channel Input Stop Instruction
- Programming a Dual-Channel Input Stop with Test and Mute Instruction
- Programming a Configurable Redundant Output Instruction
- Programming a Five Position Mode Selector Instruction
- Programming a Safety Mat Instruction



Course Number

SAF-LOG101

Course Purpose

Upon completion of this course, you will be able to create a Logix Designer project for a GuardLogix® system. You will have the opportunity to develop and practice these skills by:

- Creating and configuring a GuardLogix project:
 - Configuring controller properties
 - Configuring a safety task
 - Configuring produce/consume safety tags to share data over an EtherNet/IP network
- Adding and configuring CompactBlock™ Guard I/O™ safety modules
 - Configuring safety I/O data and status information that is displayed in the controller tags
 - Configuring input points and delay times
 - Configuring specific operation of safety and test outputs
- Generating Safety Signatures and locking/unlocking a GuardLogix controller
- Programming safety instructions

LISTEN.
THINK.
SOLVE.

Who Should Attend

This course is intended for individuals who need to develop Logix Designer projects for GuardLogix controllers.

Prerequisites

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

- Ability to perform basic Microsoft Windows tasks
- Completion of the following courses:
 - *Studio 5000 Logix Designer Level 3: Project Development* (Course Number CCP143)
 - *GuardLogix Fundamentals and Troubleshooting* (Course Number SAF-LOG103)
- General experience with industrial controls

Technology Requirements

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Student Materials

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- *Student Manual*
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Hands-On Practice

Throughout the course, you will have the opportunity to practice skills you have learned through a variety of hands-on exercises using a GuardLogix workstation (Catalog Number ABT-TDGRDLX1-B). Exercises focus on the skills introduced in each lesson.

Next Learning Level

Once you have an understanding of the topics and skills covered in this course, you may want to attend specific safety training such as:

- *Functional Safety for Machinery Technician Certification (TÜV Rheinland)* (Course Number SAF-TUV0T)

Course Length

This is a two-day course.

IACET CEUs

Rockwell Automation is authorized by IACET to offer 1.4 CEUs for this program.



To Register

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