

# GuardLogix/Studio 5000

GuardLogix Fundamentals and Troubleshooting



## 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:
  - List 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

## 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

## 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 experiences, 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-TUVOT)
- *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.

To be respectful of the environment, Rockwell Automation is transitioning some of its training courses to a paperless format. Students are asked to complete downloads and bring personal devices to these classes. A full list of digital/paperless courses is currently available through your local distributor.

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Publication GMST10-PP514H-EN-E - March 2020 | Supersedes Publication GMST10-PP514G-EN-E - May 2018

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