

GuardLogix™ Controllers

GuardLogix™ Application Development Course Description

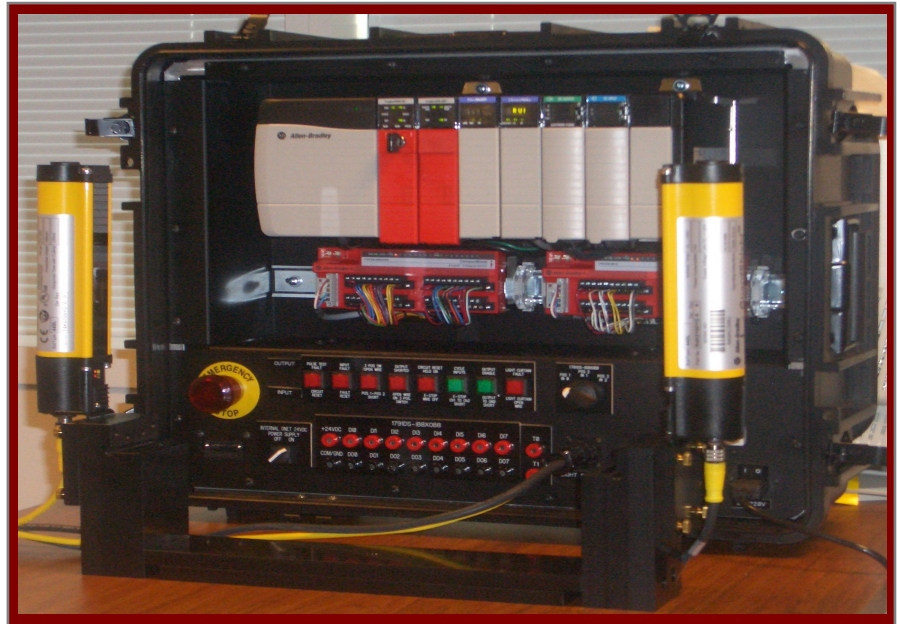
COURSE AGENDA

Day 1

- Understanding the Safety Principles of a GuardLogix System
- Identifying GuardLogix System Hardware Components
- Understanding the Functionality of a GuardLogix System
- Creating a New GuardLogix Project Using RSLogix 5000 Software

Day 2

- Configuring CompactBlock Guard I/O Modules for a GuardLogix Project Using RSLogix 5000 Software
- Getting CompactBlock Guard I/O Point Status Information Via Explicit Messaging Using RSLogix 5000 Software
- Programming RSLogix 5000 Ladder Logic within a GuardLogix Safety Task
- Configuring a GuardLogix Controller to Produce and Consume Safety Data over an EtherNet/IP Network
- Configuring GuardLogix Controller Safety Options



COURSE NUMBER: SAF-LOG101

Course Purpose

Upon completion of this course, you will be able to create an RSLogix 5000 project for a GuardLogix system and maintain the system. You will have the opportunity to develop and practice these skills by:

- Learning safety principles of a GuardLogix system:
 - Risk and safety concepts
 - Safety Integrity Levels and Category ratings
 - Machine safety standards
- Learning basic concepts and terminology used with:
 - GuardLogix system hardware
 - RSLogix 5000 software
- Creating and configuring a GuardLogix project:
 - Configuring safety components
 - Configuring I/O modules (DeviceNet and EtherNet/IP)
 - Programming safety application instructions
- Generating Safety Signatures and locking/unlocking a GuardLogix controller

Who Should Attend

This course is intended for individuals who need to develop RSLogix 5000 projects for GuardLogix controllers but have no or little current working experience with GuardLogix systems.

Prerequisites

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

- Ability to perform basic Microsoft® Windows® tasks
- Completion of the *RSLogix 5000 Level 3: Project Development* course (Course No. CCP143)
- 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 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 two-day course.

Course Number

The course number is SAF-LOG101.



IACET CEUs

CEUs Awarded: 1.4

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

Power, Control and Information Solutions

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