

GuardLogix Application Development

Description

This course (SAF-LOG101) provides guidance on how to create a Studio 5000 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
- Adding and configuring CompactBlock™ Guard I/O™ safety modules
- Generating Safety Signatures and locking/unlocking a GuardLogix controller
- Programming safety instructions

Objectives

- Identifying GuardLogix System Hardware Components
- Configuring GuardLogix Controller Properties and Safety Options
- Configuring Guard I/O Safety Modules for a GuardLogix Project
- Downloading and Uploading a GuardLogix Project
- Producing and Consuming GuardLogix Safety Data Over an EtherNet/IP Network and Mapping Safety Tags
- Programming a Dual Channel Input Stop Instruction within a GuardLogix Safety Task
- Programming a Dual Channel Input Stop with Test and Mute Instruction within a GuardLogix Safety Task
- Programming a Configurable Redundant Output Instruction within a GuardLogix Safety Task
- Programming a Five-Position Mode Selector Instruction within a GuardLogix Safety Task
- Programming a Safety Mat Instruction within a GuardLogix Safety Task

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

Who Should Attend

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