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## Packt Publishing RSLogix 5000 Programming

# Learning RSLogix 5000 Programming: Instruction Manual

**Author:** Austin Scott | **Publisher:** Packt Publishing

## 1. INTRODUCTION

This manual serves as a guide to effectively utilize the book *Learning RSLogix 5000 Programming*. It is designed to help readers understand the Logix platform, Rockwell Automation terminologies, and leverage available online resources. The book focuses on building robust PLC solutions using ControlLogix, CompactLogix, and RSLogix 5000/Studio 5000, covering various controller types and the latest features of the Studio 5000 Automation Engineering and Design software suite.

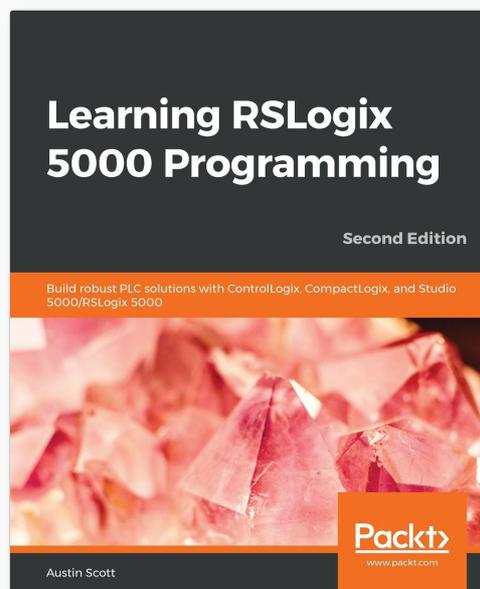


Image 1.1: The cover of the book *Learning RSLogix 5000 Programming*, featuring the title, author, and publisher logo.

### 1.1 Target Audience

This book is intended for:

- PLC programmers, electricians, instrumentation technicians, or automation professionals with basic PLC programming knowledge, but new to RSLogix 5000.

- Individuals familiar with automation seeking to learn about RSLogix 5000 software efficiently.

## 2. GETTING STARTED (SETUP)

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To maximize your learning experience with this book, ensure you have a foundational understanding of Programmable Logic Controllers (PLCs). The book will guide you through the specifics of Rockwell Software's Logix Designer and the Studio 5000 platform.

### 2.1 Required Software and Platforms

The concepts and examples in this book are based on the following Rockwell Automation components:

- **ControlLogix:** A modular, scalable, and high-performance control system.
- **CompactLogix:** A compact and cost-effective control system for smaller applications.
- **SoftLogix:** A PC-based control solution.
- **RSLogix 5000/Studio 5000 Logix Designer:** The integrated development environment for programming Rockwell Automation Controllers.

Access to these software environments or a simulated environment (like Logix Emulate 5000) is recommended for practical application of the book's content.

## 3. USING THE BOOK (OPERATING)

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This section outlines how to navigate the book's content and what key knowledge you will acquire.

### 3.1 Key Learning Objectives

Upon completing this book, you will be able to:

- Gain insights into Rockwell Automation and the evolution of the Logix platform.
- Identify key platform changes in Studio 5000 and Logix Designer.
- Explore various ControlLogix and CompactLogix controllers.
- Understand Rockwell Automation industrial networking fundamentals.
- Implement cybersecurity best practices using Rockwell Automation technologies.
- Discover key considerations for engineering a Rockwell Automation solution.

### 3.2 Content Overview

The book is structured into chapters covering fundamental to advanced topics:

1. History of the Rockwell Automation Technologies
2. ControlLogix
3. CompactLogix
4. SoftLogix
5. Understanding Logix Emulate 5000
6. Industrial Network Communications
7. Configuring Logix Modules
8. Writing Ladder Logic
9. Writing Function Block
10. Structured Text Programming
11. Sequential Function Chart Programming

12. Using Tasks and Programs for Project Organization
13. Faults and Troubleshooting
14. Cybersecurity Best Practices
15. Building a Robot Bartender in Logix

## 4. MAINTAINING KNOWLEDGE (MAINTENANCE)

The field of industrial automation and PLC programming is continuously evolving. To maintain and update your knowledge:

- Regularly consult the **Rockwell Automation Literature Library** for the latest documentation, software updates, and technical notes.
- Engage with online communities and forums dedicated to Rockwell Automation and PLC programming.
- Stay informed about new processor models, software features, and cybersecurity best practices as they emerge.

## 5. TROUBLESHOOTING LEARNING CHALLENGES

Learning complex programming concepts can present challenges. Consider the following approaches if you encounter difficulties:

- **Review Fundamentals:** If a concept is unclear, revisit earlier chapters or foundational PLC programming resources.
- **Practice:** Implement the examples and exercises provided in the book. Hands-on practice is crucial for understanding.
- **Consult Documentation:** Refer to official Rockwell Automation documentation for detailed information on specific functions, instructions, or hardware.
- **Online Resources:** Utilize online forums, communities, and educational platforms for additional explanations or to ask specific questions.

## 6. SPECIFICATIONS

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## 7. SUPPORT AND RESOURCES

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For additional support, errata, or to provide feedback on the book, please visit the publisher's official website or contact their support channels. Packt Publishing is committed to providing high-quality technical content.

- **Publisher Website:** [www.packtpub.com](http://www.packtpub.com)
- **Author Information:** For more about Austin Scott, refer to the 'About the Author' section typically found within the book or on the publisher's website.

*Please note that this book is a learning resource and does not come with a direct product warranty. Support is provided for the content of the book itself.*