

SLC 500 and RSLogix 500 Maintenance and Troubleshooting

OEM: Rockwell Automation • Duration: 4 Days (32 hrs) • Code: CCPS43

COURSE MODULES & TOPICS

Prerequisites

- Experience maintaining electrically controlled systems
- Working knowledge of programmable controllers or completion of the PLC-5/SLC 500 and RSLogix Fundamentals course (CCP122)
- Experience operating a personal computer within a Microsoft Windows 98, Windows 2000, Windows ME, Windows NT, or Windows XP environment

Student Materials

- Student Manual includes the key concepts, definitions, examples, and activities presented in this course
- Lab Guide includes the hands-on exercises
- SLC 500 and RSLogix 500 Troubleshooting Guide contains diagnostic procedures that efficiently lead the user to possible maintenance and troubleshooting solutions

Course Agenda

- Identifying SLC 500 System Components
- Getting Started with RSLogix 500 Software
- Communicating with a SLC 500 Processor
- Identifying Memory Layout and SLC 500 System Addresses
- Monitoring and Entering Data
- Interpreting Bit Instructions
- Editing Ladder Logic
- Documenting an RSLogix 500 Project
- Searching Ladder Logic
- Interpreting Timer and Counter Instructions
- Integrated Practice: Tracing Through Ladder Logic
- Interpreting Comparison Instructions
- Interpreting Data Handling Instructions
- Interpreting Program Control Instructions
- Configuring and Previewing a Project Report
- Creating a Histogram
- Forcing Inputs and Outputs

- Troubleshooting Noise-Related Problems
- Troubleshooting Processor and Power Supply Problems
- Troubleshooting Discrete I/O Problems
- Troubleshooting Analog I/O Problems
- Integrated Practice: Maintaining and Troubleshooting an SLC 500 System