

SLC 500 and RSLogix 500 Advanced Maintenance and Troubleshooting

OEM: Rockwell Automation • Duration: 4 Days (32 hrs) • Code: CCPS45

COURSE MODULES & TOPICS

Objectives

- Setup a SLC 500 system on a DH+ network
- Troubleshoot RSLogix 500 projects containing the following: STI, DII, program flow/interrupt, and fault routines
- Immediate I/O update, shift register, sequencer, and PID instructions
- Indexed and indirect addressing
- Message instructions for DH+ communications
- Remote I/O addressing
- Discrete data transfers on a remote I/O link
- Block transfers on a remote I/O link
- Apply preventative maintenance and troubleshooting strategies

Prerequisites

- Experience maintaining electrically controlled systems
- Experience operating a personal computer within a Microsoft Windows 2000 or Windows XP environment
- Completion of the SLC 500 and RSLogix 500 Maintenance and Troubleshooting course (CCPS43)

Student Materials

- Student Manual includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book provides learning activities and hands-on practice. Solutions are included after each exercise for immediate feedback
- SLC 500 and RSLogix 500 Troubleshooting Guide contains diagnostic algorithms that efficiently lead the user to possible maintenance and troubleshooting solutions

Course Agenda

Day 1

- Setting Up an SLC 500 System on a DH+ Network
- Troubleshooting Program Flow and Interrupt Routines
- Troubleshooting STI Routines
- Troubleshooting DII Routines

Day 2

- Troubleshooting Fault Routines
- Troubleshooting Immediate I/O Update Instructions
- Troubleshooting Shift Register Instructions
- Troubleshooting Sequencer Instructions

Day 3

- Troubleshooting Indexed and Indirect Addressing
- Troubleshooting Message Instructions for DH+ Communications
- Troubleshooting PID Instructions

Day 4

- Troubleshooting Remote I/O Addressing
- Troubleshooting Discrete Data Transfers on a Remote I/O Link
- Troubleshooting Block Transfer Instructions on a Remote I/O Link
- Applying Preventative Maintenance and Troubleshooting Strategies