T302  System 800xA  
Maintenance and Troubleshooting

Course Description

Course Duration
The duration is 5 days.

Course Type
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Course Goal
The goal of this course is to learn how to maintain and troubleshoot an Extended Automation System 800xA.

Student Profile
This training is targeted to commissioning and maintenance personnel, system administrators and service & support engineers.

Prerequisites and Recommendations
Students should have attended either the Basic Configuration course T314 or the Engineering course T315 or have knowledge and experience associated with the content of these courses.

Course Objectives
Upon completion of this course, students will be able to:

• Troubleshoot and exchange AC 800M hardware
• Trace alarms from HSI down to control logic and trace
• Trace signals in Control Builder
• Troubleshoot and diagnose the OPC communication to AC 800M
• Troubleshoot and diagnose communication between controllers
• Troubleshoot communication to S800
• Troubleshoot redundant networks
• Monitor system performance
• Diagnose process graphics
• Configure user accounts and describe how access rights work
• Configure time synchronization
• Use diagnose tools for Windows
• Describe how to create a maintenance plan and do preventative system maintenance
• Perform disaster recovery
• Collect log files

Main Topics

• Hardware diagnostics
• Hardware redundancy
• Signal and alarm tracing
• I/O communication
• Communication between controllers
• OPC communication
• Network
• Windows diagnostic
• System 800xA performance
• Time synchronization
• Security
• Preventative system maintenance
• Disaster recovery
## T302  System 800xA
### Maintenance and Troubleshooting

**Course Outline**

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