ABB UNIVERSITY COURSE DESCRIPTION

T314
System 800xA - Basic Configuration

Learn the basics of System 800xA. Explain the System 800xA system architecture and its many components.

Course type and methods
This is an instructor led workshop with short presentations and demonstrations, extended exercises, hands on sessions and discussion. Approximately 50% of the course is hands-on lab.

Student Profile
This training is targeted to System 800xA users who need to learn the fundamentals in order to form a foundation for maintenance and administration skills. If more comprehensive engineering skills are needed, it is recommended to consider T315 instead.
Note: There is some overlap in T314 with the material of T308 Hardware and Troubleshooting. Since both courses are intended not to require prerequisite knowledge of 800xA, there is introductory material in both courses that is very similar.

Prerequisites
Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows.

Course objectives
Upon completion of this course the participants will be able to:
• Explain the System 800xA architecture and the function of the different components
• Modify existing application programs by using Function Block Diagrams, Sequential Function Charts, Structured Text and Control Modules
• Describe the structure of application programs i.e. variables, libraries, programs, tasks
• Troubleshoot the OPC connectivity to AC800M
• Configure the AC 800M hardware and corresponding I/O’s
• Modify graphic displays
• Manage and configure alarm and events
• Monitor trends and configure historical data collection
• Import / export System 800xA data

Main topics
• System 800xA architecture
• AC 800M Hardware
• Applications with FBD, ST, and SFC
• Control Modules
• Alarm and Events
• Historian and Trends
• Graphic Displays
• Operator Workplace
• Function Designer
• Import / export

Duration
The duration is 5 days
# Course Outline

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