

T315C System 800xA with AC 800M Engineering AC 800M

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 the engineering of the Extended Automation System 800xA with AC 800M controllers.

Student Profile

This training is targeted to application engineers, programmers and system integrators.

Prerequisites and Recommendations

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

Course Objectives

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

- Explain the System 800xA architecture and the function of the different components
- Navigate in the system and create new objects / aspects
- Create a new project and plan the structure of application programs
- Configure the AC 800M hardware and corresponding I/O's

- Design and configure application programs by using a variety of IEC 61131-3 languages
- Setup the OPC connectivity to AC800M
- Develop project specific libraries
- Backup / restore System 800xA data
- Use the Function Designer and Signal objects
- Use bulk data handling with templates

Main Topics

- System 800xA architecture
- Engineering Workplace
- Project and application structures
- AC 800M Hardware
- Applications with FBD and ST
- Control Modules
- Sequential Function Charts (SFC)
- OPC connectivity
- Function Designer
- Backup



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Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"> • Course overview • System 800xA architecture • Engineering Workplace • Project framework • AC 800M hardware 	<ul style="list-style-type: none"> • Libraries • Variables and Data types • Function Block Diagram • Structured Text 	<ul style="list-style-type: none"> • Task assignment and Memory • User defined Function Block types • Sequential Function Charts (SFC) 	<ul style="list-style-type: none"> • Control Modules • MMS Communication • Documentation 	<ul style="list-style-type: none"> • Function Designer • Signal Objects • Bulk data handling (optional) • Backup

