**T315 System 800xA with AC 800M Engineering**

**Course Description**

**Course Duration**
The duration is 10 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
- Configure graphic displays, faceplates and graphic elements
- Manage and configure alarm and events
- Configure historical data and trends
- Configure workplaces and user accounts
- 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
- Alarm and Events
- Historian and Trends
- Graphic Displays
- Faceplates and Graphic Elements
- Operator Workplace
- Function Designer
- Backup / restore
T315  System 800xA with AC 800M  
Engineering

Course Outline

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