Course description
INT315
System 800xA Engineering

Course goal
The goal of this course is to learn the engineering of the Extended Automation System 800xA with AC 800M controllers.

Learning objectives
Upon completion of this course the participants 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 control 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 bulk data handling with templates

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

Prerequisites
Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows 2000.

Topics
- System 800xA architecture
- Engineering Workplace
- Project and application structures
- AC 800M Hardware
- OPC connectivity
- Applications with FBD and ST
- Control Modules
- Sequential Function Charts (SFC)
- Alarm and Events
- Historian and Trends
- Graphic Displays
- Faceplates and Graphic Elements
- Operator Workplace
- Function Designer
- Backup / restore

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

Duration
The duration of the course is ten days.
## Course description

**INT315**  
System 800xA Engineering

### Course outline

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**ABB India Limited**  
Process Automation Training Centre  
New PA Shop Floor Building, Plot No. 4A, 5&6, 2nd Phase,  
Peenya Industrial Area, Bengaluru – 560058, Karnataka, India  
Email: training@in.abb.com  
www.abb.com/abbuniversity