

COURSE NO. T314V

800xA Basic Engineering - On-Line Training

On-line course



About this course

This is a self-paced course employing the same courseware previously only available with an in-center class. It features a learning platform custom built by ABB University courseware developers, designed expressly to meet the needs of industrial automation users.

- Learn the basics of System 800xA, its system architecture and components.
- Can be used to meet prerequisite requirement for T305 '800xA System Installation and Administration'.
- Ideal for any 800xA user who performs maintenance or administration tasks.
- In-center class is five days of training, plus travel time. By taking the on-line course, a student can remain on site and at home.



24-7-365 availability

Access courseware anytime, from anywhere, when it's most convenient for you.



Lifetime access

This course and all your personal notes will remain available to you for life.



2 weeks virtual machine

Access to cloud based virtual machine loaded with ABB controller and system software.

This course is for you if:

You are a System 800xA user whose primary functions are either maintenance or administration of the process control system. If more comprehensive engineering skills are needed, it is recommended to consider T315 instead.

Here are the main topics that will be covered in this course:

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

Enroll at:

mylearning-americas.abb.com

Or contact us:

Tel: 1 800 HELP 365, option 2, option 4

Email: abbuniversity@us.abb.com

You'll walk away with

1 An understanding of the System 800xA architecture, its different components and application programs (e.g., variables, libraries, programs and tasks)

2 The ability to modify application programs using Function Block Diagrams, Sequential Function Charts, Structured Text and Control Modules as well as modify graphic displays

3 Experience with configuring the AC 800M hardware, corresponding I/O's, alarms, events and historical data collection

Prerequisites

There are no prerequisites for this course, but students are expected to have working knowledge of Control System fundamentals and have basic Microsoft Windows experience.

Your success team

The learning platform includes a chat feature and user forum that allows you to send questions and comments to a learning facilitator and other students. Connect with fellow students to build a support network and collaborate with others.

Course objectives

Upon completion of this course you 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

Key to maximum knowledge acquisition is hands-on practice. ABB University on-line courses feature a virtual machine, hosted on ABB cloud servers. This virtual machine is loaded with the appropriate ABB controller simulation and system application software necessary to complete the on-line course labs, running on top of the Microsoft Windows operating system. This virtual machine is a safe way to practice knowledge learned from the on-line course without disruption to a working production system.