

COURSE NO. US806V

PLC Control Builder, Process Panel, and ACS880 Drives Integration On-Line - us

On-line course



About this course

This course utilizes the same courseware that was previously only available with an in-center classroom enrollment. It features a learning platform custom built by ABB University courseware developers, designed expressly to meet the needs of industrial automation users. A virtual machine with ABB controller simulation and system application software is provided for practice and completion of course labs. The in-center class requires a student to attend five days of training, plus travel time. By taking the on-line course, a student can remain on site, at home and save on travel costs.



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 control engineer, system engineer, service engineer, or a maintenance technician. While targeted to a specific application, ABB PMC800 Paper Machine drive control, this course is also applicable to similar drive control applications.

The main topics that will be covered in this course:

- AC800M, Control Builder, and Process Panel system architecture and hardware
- Interface drives with ACS880 using Drive Composer
- Creating a Control Builder project
- Managing libraries, connecting I/O
- Using IEC 61131-3 programming languages
- Creating an using control modules
- Process panel communications
- Process panel configuration
- Control Builder and Process Panel builder project maintenance

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

01

An understanding of AC800M hardware, function block and structured text programming.

02

The ability to manage libraries, assign tasks and schedules, and interface drives.

03

Experience with Process Panel Builder, Control Builder, Drive Composer, and projects.

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:

- Build and configure a small system using AC800M controllers and Process Panel
- Use a project description and P&ID to define a control logic solution to meet process control objectives
- Use Control Builder to make the connection between S800 I/O modules and the control logic
- Recognize a variety of IEC 61131-3 compliant languages that Control Builder uses to implement control logic in an AC800M controller.
- Configure a Process Panel to act as an operator interface and establish communication with the AC800M controller
- Configure an interface between the AC800M controller and an ABB drive
- Review PMC800 application software for Paper Machine drive control.

The 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.