

COURSE NO. T530V

Compact Control Builder

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 system and application engineer, commissioning and maintenance personnel, service engineers and system integrators working on a Compact Control Builder project.

The main topics that will be covered in this course:

- AC 800M hardware
- Variables and data types
- Function Block Diagram
- Structured Text
- Task assignment and memory
- Control Modules
- User defined object types
- Sequential Function Charts (SFC)
- Introduction to Process Panel Builder
- Backup and Restore

Enroll at:

mylearning-americas.abb.com

Or contact us:

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

You'll walk away with

01

An understanding of component functions, hardware, Process Panels and libraries

02

The ability to connect, configure, load, verify, monitor, tune, and trend logic to controller

03

Experience with project structures, application structures, hardware configuration, and standard libraries

Prerequisites

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

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:

- Create a new control project and plan the structure of application programs based on a P&ID and a Functional Specification
- Configure the AC 800M hardware and corresponding I/O's
- Handle the standard libraries provided by ABB and develop project specific libraries
- Design and configure application programs by using a variety of IEC 61131-3 languages
- Define tasks and describe the assignment rules
- Analyze the controller diagnostics and optimize the CPU load / memory usage
- Configure user defined object types
- Setup communication using various protocols
- Setup the OPC connectivity to AC800M
- Setup a Process Panel

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.