

COURSE NO. US950V

# Virtualization for ABB Control Systems Using VMware® ESXi environment

On-line course



## About this course

This course utilizes an updated version of the courseware that was previously only available with an in-center classroom enrollment. Recorded video presentations and/or demos are available for each chapter that provide the same lecture experienced in the classroom environment. It features a learning platform custom built by ABB University courseware developers, designed expressly to meet the needs of industrial automation users. Several virtual machines with simulation and system application software are 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 responsible for a virtualized system, you are considering virtualization, want to know more about virtualization, or are getting a virtualized system.

The main topics that will be covered in this course:

- Describe and explain the purpose, principles and advantages of virtualization
- Set up and configure an ESXi server environment
- Make backups of VM by using Acronis® software into a virtual environment
- Learn about proper time sync configurations for the DCS and the ESXi environment

Enroll at:

[mylearning-americas.abb.com](http://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 the purpose, principles and advantages of virtualization.

### 02

The ability to set up, configure and maintain a virtualized system.

### 03

Experience with VMware Workstation, ESXi, vSphere, vCenter, virtualized networking, and Acronis.

#### Prerequisites

Knowledge about Virtualization is not required.

#### 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 the participants will be able to:

- Describe and explain the purpose, principles and advantages of virtualization
- Setup and configure a VM using VMware® Workstation
- Plan and design the required hardware for a VMware® ESXi environment
- Set up and configure an ESXi server environment
- Set up virtual Control and Client/Server networks
- Create a virtualized server
- Configure networking internal and external to the system
- Make backups of VM by using Acronis® software into a virtual environment
- Handle licensing, security and data exchange in an ESXi environment
- Learn about proper time sync configurations for the DCS and the ESXi environment
- Advance topics relating to ESXi; SANs, iSCSI, High Availability, vCenter configuration

### The key to maximum knowledge acquisition is hands-on practice.

This ABB University on-line course features several virtual machines, hosted on ABB cloud servers. The virtual machines are loaded with the appropriate simulation and system application software necessary to complete the on-line course labs. Using a virtual machine is a safe way to practice knowledge learned from the on-line course without disruption to a working production system.