

NA940

Microsoft Windows Theory with Hands-On



Learn to configure and secure both a Windows Server 2012 networking environment as required for supporting, installing and maintaining System 800xA.

Course type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, and hands-on sessions and discussion. Approximately 50% of the course is hands-on lab activities.

Student Profile

This training is for operators and engineers who oversee a Windows Server 2012 environment with System 800xA.

Prerequisites

Before attending this course, students must have familiarity with computer hardware and devices, the ability to locate unsupported devices using Device Manager, basic experience supporting any Windows based operating system, and completed the NA939 – TCP/IP Networking Fundamentals and Troubleshooting course.

Course objectives

Upon completion of this course the participants will be able to:

- Identify the System 800xA installation requirements
- Understand how to use the various installation types
- Recognize ABB hardware requirements and operating system compatibility
- Learn general computer terms

- Install and configure Windows Server 2012
- Describe and install Server Roles and Features
- Understanding the difference between workgroups and Active Directory
- Begin operating and configuring Active Directory
- Identify the security features in Windows Server that help to provide defense-in-depth
- Introduction to Group Policy
- Monitor servers and desktops to determine the performance level
- Identify and use tools to troubleshoot servers and desktops

Main topics

Participants will learn the technical network support fundamentals of Windows Server 2012 for System 800xA and IP networks. Participants will learn Microsoft's Windows Server 2012 and Windows 8 operating system as it integrates with System 800xA. Upon completion students will leave with the knowledge, skills, and ability to successfully install, and maintain Windows Server 2012. Students will learn how Windows Server 2012 improvements to networking, security, system performance, and deployment methods create a solid foundation for the various System 800xA node types and configurations.

Duration

The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none">• Introductions• Overview of the course• Windows Server 2012 Overview• Installing and Configuring Windows Server• Windows Server Roles• Implement Storage in Windows Server	<ul style="list-style-type: none">• Review• Overview of workgroups• Overview of Active Directory• Overview of DNS for Active Directory• Monitoring Active Directory replication	<ul style="list-style-type: none">• Review• Overview of Windows Security Model• Managed User accounts• Managing Groups• Managing Computer Accounts• NTFS Security• Administering Active Directory	<ul style="list-style-type: none">• Review• Intro to Group Policy• Basics of implementing Group Policy• Group Policy Troubleshooting	<ul style="list-style-type: none">• Review• Monitoring Windows Performance• Windows Troubleshooting tools

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