



1750 N. Florida Mango Rd
Suite 302
West Palm Beach, FL 33409
561.840.8080
training@comptec.com
www.comptec.com



Learning Solutions



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Course 70-642 TS: Windows Server 2008 Network Infrastructure, Configuring

Hours: 40, Tuition: \$1600

Introduction

This five-day instructor-led course provides students with the knowledge and skills to configure and troubleshoot a Windows Server 2008 network infrastructure. Students will learn to implement and configure secure network access and implement fault tolerant storage technologies. Students will gain an understanding of the network technologies most commonly used with Windows Server 2008 and IP-enabled networks. Students will also learn how to secure servers and maintain update compliance.

Audience

The primary audience for this course includes Active Directory technology specialists aspiring to be Enterprise Administrators (Tier 4 daily network operations) or Network Administrators (Tier 2). Experienced Server Administrators who aspire to be Enterprise Administrators will also benefit from this course.

The secondary audience for this course includes Storage Area Network Administrators who need to understand this information to deploy or extend their current storage infrastructure. Operations Managers who need this information to support troubleshooting efforts and business decisions will also benefit from this course.

Credit toward certification

When you pass Exam 70-642: TS: Windows Server 2008 Network Infrastructure, Configuring, you complete the requirements for the following certification:

- Microsoft Certified Technology Specialist (MCTS): Windows Server 2008 Network Infrastructure, Configuring

Exam 70-642 counts as credit toward the following certifications:

- Microsoft Certified IT Professional (MCITP): Enterprise Administrator
- Microsoft Certified IT Professional (MCITP): Server Administrator

Prerequisites

Before attending this course, students must have:

- Working experience with Windows Server 2003.
- Basic knowledge of Active Directory.
- An understanding of security concepts and methodologies (for example, corporate policies).
- Basic knowledge of DHCP.
- Basic knowledge of IPsec.

At course completion

After completing this course, students will be able to:

- Install and configure servers.
- Configure and troubleshoot DNS.
- Configure and manage WINS.
- Configure and troubleshoot DHCP.
- Configure and troubleshoot IPv6 TCP/IP.
- Configure and troubleshoot Routing and Remote Access.
- Install, configure, and troubleshoot the Network Policy Server Role service.
- Configure Network Access Protection.
- Configure IPsec.
- Monitor and troubleshoot IPsec.
- Configure and manage Distributed File System.
- Configure and manage storage technologies.
- Configure availability of network resources and content.
- Configure server security compliance.

Course outline

Course 6421: Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure

Module 1: Installing and Configuring Servers

This module explains how to identify the appropriate usage scenario and installation type for a server and then install and configure appropriate server roles and features.

Lessons

- Installing Windows Server 2008
- Managing Server Roles and Features
- Overview of the Server Core Installation Option

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Module 2: Configuring and Troubleshooting DNS

This module explains how to configure, manage and troubleshoot DNS server and zone properties to be used in a secure environment.

Lessons

- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS

Module 3: Configuring and Managing WINS

This module explains how to configure, manage and troubleshoot WINS servers.

Lessons

- Overview of the Windows Internet Name Service
- Managing the WINS Server
- Configuring WINS Replication
- Migrating from WINS to DNS

Module 4: Configuring and Troubleshooting DHCP

This module explains how to configure, manage and troubleshoot a DHCP environment supporting an IPV4 infrastructure.

Lessons

- Overview of the DHCP Server Role
- Configuring DHCP Scopes and Options
- Managing a DHCP Database
- Monitoring and Troubleshooting DHCP
- Securing DHCP

Module 5: Configuring and Troubleshooting IPv6 TCP/IP

This module explains how to configure and troubleshoot static and dynamic IPv6 addresses, including subnet prefix lengths, gateways and DNS servers.

Lessons

- Overview of IPv6
- Coexistence with IPv6
- IPv6 Tunneling Technologies
- Transitioning from IPv4 to IPv6
- Troubleshooting IPv6

Module 6: Configuring and Troubleshooting Routing and Remote Access

This module explains how to configure and troubleshoot Routing and Remote Access Services.

Lessons

- Configuring Network Access
- Configuring VPN Access
- Overview of Network Policies
- Overview of the Connection Manager Administration Kit
- Troubleshooting Routing and Remote Access

Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role Service

This module explains how to install, configure and troubleshoot the Network Policy Server Role service.

Module 8: Configuring Network Access Protection

This module explains how to configure and manage NAP for DHCP, VPN, and 802.1X.

Lessons

- Overview of Network Access Protection
- How NAP Works
- Configuring NAP
- Monitoring and Troubleshooting NAP

Module 9: Configuring IPsec

This module explains how to configure and test IPsec.

Lessons

- Overview of IPsec
- Configuring Connection Security Rules
- Configuring IPsec NAP Enforcement

Module 10: Monitoring and Troubleshooting IPsec

This module explains how to monitor and troubleshoot IPsec.

Lessons

- Monitoring IPsec Activity
- Troubleshooting IPsec

Module 11: Configuring and Managing Distributed File System

This module explains how to configure and manage Distributed File System.

Lessons

- DFS Overview
- Configuring DFS Namespaces
- Configuring DFS Replication

Module 12: Configuring and Managing Storage Technologies

This module explains how to configure and troubleshoot file system storage technologies included with Windows Server 2008.

Lessons

- Windows Server 2008 Storage Management Overview
- Managing Storage Using File Server Resource Manager
- Configuring Quota Management
- Implementing File Screening
- Managing Storage Reports

Module 13: Configuring Availability of Network Resources and Content

This module explains how to describe and configure backup and recovery methods.

Lessons

- Backing Up Data
- Configuring Shadow Copies
- Providing Server and Service Availability

Module 14: Configuring Server Security Compliance

This module explains how to configure and analyze server security and security update compliance.

Lessons

- Securing a Windows Infrastructure
 - Using Security Templates to Secure Servers
 - Configuring an Audit Policy
 - Overview of Windows Server Update Services
 - Managing Windows Server Update Services
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