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CENTER FOR PROFESSIONAL DEVELOPMENT

MICROSOFT CERTIFIED SYSTEM ENGINEER (MCSE) 2003

700 Hours/18 Months/Instructor-Facilitated
Course Code: **CPD089** || Course Cost: **$3295**

OVERVIEW

The Microsoft Certified Systems Engineer Security course on Microsoft Windows® 2003 training certification ensures IT professionals the knowledge and skill to design, plan, and implement security on the Microsoft platform and as part of a secure computing environment. The MCSE: Security training and certification will allow IT professionals to demonstrate security-specific skills appropriate to the systems engineer, which includes designing, planning, and implementing security on Windows 2003 .Net Platform. In addition, this certification will allow individuals to show proficiency with Microsoft Internet Security. The MCSE credential is one of the most widely recognized technical certifications in the industry, a credential in high demand. By earning the premier MCSE credential, individuals are demonstrating that they have the skills necessary to lead organizations in the successful design, implementation, and administration of the most advanced Microsoft Windows platform and Microsoft server products.

OBJECTIVES

Upon successful completion of this program, you will:

- Identify the tasks involved in supporting Windows 2003 networks
- Understand how networking concepts are implemented in Windows 2003
- Configure Microsoft Windows 2003 Professional on stand-alone computers and on client computers that are part of a workgroup or domain
- Install and configure Windows 2003 Server
- Install, configure, manage, and support a network infrastructure that uses Microsoft Windows 2003 server
- Gain skills needed to create a networking services infrastructure design that supports the required network applications
- Learn network solution technologies including DHCP, IP, OSPF, RIP, and IGMP
- Gain the knowledge and skills needed to design a security framework for small, medium, and enterprise networks by using Microsoft Windows 2003 technologies
- Install, configure, and administer the Microsoft Window 2003 Active Directory service and design a Microsoft Windows 2003 directory services infrastructure

You'll also be prepared to take these Microsoft exams:

- 70-290: Managing and Maintaining a Microsoft Windows Server 2003 Environment
- 70-291: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
- 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
- 70-294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure

- 70-298: Designing Security for a Microsoft Windows Server 2003 Network
- 70-270: Installing, Configuring, and Administering Microsoft Windows XP Professional
- 70-297: Desiging a Windows Server 2003 Active Directory and Network Infrastructure

OUTLINE

I. Microsoft Windows XP Professional Administration and Maintenance
   - Windows XP Installation
   - Windows XP Installation Automated
   - Harware Configuration
   - Disk Management
   - File System Configuration and Management
   - Troubleshooting and Disaster Recovery
   - Desktop Configuration
   - TCP/IP Addressing Configuration and Name Resolution
   - Windows XP Configuration and Name Resolution
   - Remote User Management
   - Mobile Computer Management
   - System Resource and Performance Monitoring

II. Microsoft Windows Server 2003 Environment Management and Maintenance
   - An Overview Account and Resource Administration
   - User and Computer Account Management
   - Group Management
   - Resource Access Management
   - Printer Implementation
   - Printer Management
   - Object Access Management
   - Group Policy Implementation
   - Group Policy Mangement
   - Administrative Templates and Audit Policy Implementation
   - Server Administration Preparation
   - Server Performance Monitoring Preparation
   - Server Performance
   - Device Driver
   - Disk Management
   - Data Storage Management
   - Disaster Recovery
   - Software Maintenance Using the Software Update Service

III. Microsoft Windows Server 2003 Network Services Management
   - Introducing the TCP/IP Protocol
   - Assigning IP Addresses in a Multiple Subnet
   - Configuring a Client IP Address
   - Configuring a Client for Name Resolution
   - Isolating Common Connectivity Issues
   - Using Routing and Remote Access to Configure Routing

- Using Dynamic Host Configuration Protocol to Allocate IP Addresses
- Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)
- Name Resolution
- Host Name Resolution Using Domain Name System (DNS)
- Domain Name System (DNS) Management and Monitoring
- NetBIOS Name Resolution Using Windows Internet Name Service (WINS)
- Using IPSec and Certificates to Secure Network Traffic
- Network Access Configuration
- Network Access Management and Monitoring

IV. Microsoft Windows Server 2003 Network Services Planning and Maintenance

- Network Infrastructure Planning, Tools, and Documentation
- TCP/IP Physical and Logical Network Planning and Optimization
- Routing and Switching: Planning and Troubleshooting
- Developing a DNS Strategy
- DNS Optimization and Troubleshooting
- WINS Planning and Optimization
- Effective IPSec Planning and Troubleshooting
- Network Access Planning
- Network Access Troubleshooting
- Network Infrastructure Planning

V. Microsoft Windows Server 2003 Active Directory Strategy and Implementation

- An Overview of Active Directory Infrastructure
- Active Directory Forest and Domain Implementation
- Organizational Unit Structure Implementation
- User, Group, and Computer Account Implementation
- Group Policy Implementation
- Using Group Policy to Deploy and Manage Software
- Managing Active Directory Replication via Sites
- Placing Domain Controllers
- Operations Masters Management
- Active Directory Maintenance

VI. Microsoft Windows Server 2003 Network Security Design

- An Overview of Designing Security
- Developing a Network Security Plan
- Network Security Threat Identification
- Security Risk Analysis
- Developing a Security Design for Physical Resources
- Developing a Security Design for Computers
- Developing a Security Design for Accounts
- Developing a Security Design for Authentication
- Developing a Security Design for Data
- Developing a Security Design for Data Transmission
- Developing a Security Design for Network Perimeters
- Designing a Response Strategy for Security Incidents

VII. Microsoft Windows Server 2003 Active Directory and Network Infrastructure Design

- Introduction to Active Directory Design
- Forest and Domain Infrastructure Design
- Site Infrastructure Design
- Administrative Structure Design
- Group Policy Design
- Physical Network Design
- Network Connectivity Design
- Name Resolution Strategy Design
- Network Access Infrastructure Design

COMPUTER REQUIREMENTS

This program must be taken on a PC running Windows XP/Vista/7 and IE 7 or later browsers. You will need Adobe Flash Player and Adobe Acrobat Reader, as well as Windows Media Player and WinZip.

INSTRUCTOR BIO

Chris Lobban has industry experience with an extensive range of hardware and software solutions. Before working as an instructor, he worked both in a help desk environment and as a quality assurance analyst. He received his formal training as a computer networking and technical support specialist at Seneca College. Chris has earned CompTIA A+, Network+, Server+, and Security+ credentials, as well as Microsoft MCSE (Windows Server 2003), MCSA (Windows Server 2003), MCDST (Windows XP), and MCITP Enterprise Desktop Support Technician (Windows 7) credentials. He is a Microsoft Certified Trainer (MCT).