

Windows Server 2003 Implementing Network Infrastructure

5 Sessions –

15 Hours of Interactive On Line Training

The Windows Server 2003 Implementing Network Infrastructure course from ExamForce prepares you with the knowledge and skills needed to implement, manage, and maintain a Windows Server 2003 network. Expert instructor Aaron Spurlock covers critical topics like how to implement server IP addressing, name resolution, network security, routing and remote access. ExamForce certification courses meet or exceed exam objectives. At the conclusion of the course, you will understand the skills required to implement a Windows Server 2003 network, and be prepared to pass MCP exam 70-291.

Benefits

- You will build on current abilities and be prepared to pass the exam 70-291.
- Gain mastery and IT credibility with your MCSE on Windows Server 2003 credential.
- Increase your career opportunities and earning potential.

Session 1

Section A: Network Infrastructure Overview

- Required Skills
- Required Components
- Base Platform
- Network Planning

Section B: Understanding TCP/IP

- TCP/IP History
- TCP/IP Protocol Suite
- OSI Model
- OSI Upper Layers
- OSI Middle Layers
- OSI Lower Layers
- Mapping TCP/IP to OSI
- TCP/IP Communications

Section C: IP Addresses

- MAC Addresses
- IP Addresses
- Subnet Mask
- IP Address Clauses
- Subnet Mathematics

Section D: Addressing Your Network

- Static Addresses
- Dynamic Addresses
- Assigning Addresses
- Assign Static Address
- Alternate Configuration
- Advanced IP Properties
- Configure Advanced Settings

Section E: Dynamic Addressing

- APIPA
- Using APIPA
- DHCP
- DHCP Process
- DHCP Scopes
- DHCP Superscopes

Section F: Implementing DHCP

- DHCP Authorization
- Create Scope
- Configure Client
- Create Reservation

Session 2

Section A: Managing DHCP

- Reconcile Scopes
- Backup DHCP
- DHCP Relay Agent
- Install Relay Agent
- Configure Relay Agent

Section B: IP Address Troubleshooting

- DHCP Problems
- Troubleshooting Tools
- Conflict Detection
- DHCP Authorization
- Client IP Problems

Section C: Name Resolution

- DNS History
- Authority/Delegation
- Zones/Domains
- DNS Namespace
- DNS Servers
- DNS Zone Types

Section D: Install DNS Servers

- Install DNS
- Configure DNS Servers
- Configure DNS Options
- Server Properties
- Configure Forwarding

Section E: Configuring Zones

- Choose Zone Type
- Active Directory Integration
- Create Zone
- Zone Properties
- Create DNS Records
- Delegate Domain

Section F: Monitor & Troubleshoot DNS

- Monitoring DNS
- Event Viewer
- Debug Logging
- Nslookup
- Aging & Scavenging
- Troubleshoot Name Resolution

Session 3

Section A: Remote Access

- Types of Connectivity
- Configure Remote Access
- Configure Modem
- Configure RRAS
- RRAS Properties
- Ports

Section B: Virtual Private Networks

- PPTP
- L2TP/IPSec
- Configure Security
- IP Settings
- Configure Client
- IPSec Settings
- Access Network

Section C: Remote Access Policies

- RRAS User Authentication
- Configure Logging
- User Properties
- Remote Access Policies
- Configure Policies
- Policy Properties
- Verify Policy

Section D: Internet Authentication Service

- RADIUS
- Authentication
- Configure IAS Server
- RADIUS Clients
- IAS Policies
- Authorize Server
- Configure

Section E: Troubleshooting Remote Access

- Common Problems
- VPN Security
- Packet Filters
- Test Filters

Section F: Routing Introduction

- IP Routing
- Routing Protocols
- RIP Routing
- OSPF Routing
- Static Routing

Session 4

Section A: Implementing Routing

- Managing IP Routing
- Routing Protocols
- Routing & Remote Access
- Static Routing
- Verify Static Route
- Dynamic Routing
- Configure Outbound
- Configure Inbound

Section B: Demand-Dial Routing

- Usage
- Configure DDR
- Dial-In Setup
- Dial-Out Setup
- Two-way Connection
- Dynamic Routes
- Configure Remote
- Demand-Dial Interface

Section C: Secure Remote Access

- VPNs
- Corporate VPN
- VPN Credentials
- VPN Properties
- IP Addressing
- Branch VPN
- Verify VPN Connection
- Filtering/Rules

Section D: ICS NAT

- Address Translation
- Connection Sharing
- ICS/ICF Set-Up
- Advanced Setting
- ICS/ICF Services

Section E: RRAS NAT

- Implementation
- Configuring
- ICF/ICS Conflict
- Enable RRAS NAT
- Public/Private
- NAT Properties
- Using NAT

Section F: Troubleshooting Routing

- RRAS
- Demand-Dial
- NAT
- Event Logging
- Trace Log

Session 5

Section A: Security Templates

- Baseline
- Add Security MMC
- Built-in Templates
- Create Template
- Implement Template
- Import Templates
- Applying Templates

Section B: IPsec

- IPsec Process
- IPsec Protocols

- Transport Mode
- Tunnel Mode
- Integrity/Encryption
- Authentication

Section C: Configure IPsec

- Implementation
- Actions/Rules
- Using IPsec
- IP Filter List
- Filter Actions
- Create Policy
- Assign Policy
- Verify

Section D: Troubleshoot IPsec

- IP Security Monitor
- Tracking IPsec
- Solve/Verify
- View Policy
- Update Policy
- QuickMode

Section E: Monitoring

- Tools
- Network Performance
- Network Diagnostics
- Network Monitor
- Capture VPN Traffic
- Analyze Data
- Troubleshooting Tools

Section F: Troubleshooting Services

- Services
- Failure Actions
- Service Console
- SC Command