Session 1

Section A: Introduction

- Prerequisites
- Microsoft Certification Paths
- Server Administration Benefits
- Server Administration Topics

Section B: Installing Windows Server

- Windows Server Editions
- Installation Types
- Upgrade vs. Clean Install
- Interactive Installs
- Unattended Installs
- WDS Installs
- Post Installation Tasks
- Installing Device Drivers

Section C: Server Types

- Network Layer Servers
- Access Servers
- Network Service Servers
- User Service Servers
- Application Server Models
- Virtualized Services
- Proper Startup and Shutdown

Section D: Windows Server Roles

- Application Servers
- Remote Access
- Enable Remote Access
- Remote Desktop Client
- Add Web Server Role
- Managing IIS
- Add New Web Site
- Configuring Web Site Options
- SSL Options
- Application Pools

Section E: File and Print Servers

- Installing a Printer
- Printer Sharing
- Driver Deployment
- Share Level vs. NTFS Level Shares
- User Rights vs. User Permissions
• Object Auditing

**Section F: Active Directory**

• Active Directory Defined
• Active Directory Components
• Operation Masters
• Understanding Replication
• Domain Functional Levels
• Forest Functional Levels
• Trusts and Namespaces

**Section G: Managing Active Directory**

• Understanding Group Policies
• Computer Config vs. User Config Policies
• Policy Categories
• Review Group Policy Results
• Local Group Policy Editor
• User Accounts
• User Account Properties
• Creating Groups
• Group Properties
• Active Directory Containers
• Delegation

**Session 2**

**Section A: Internal Server Storage**

• SCSI Overview
• SCSI-1
• SCSI-2
• SCSI-3
• Newer SCSI Standards
• LVD and HVD
• Multimode and Single-Ended
• Connecting SCSI Devices
• IDE Systems
• ATA Implementations
• SATA Implementations
• Serial Attached SCSI
• Storage Considerations

**Section B: External Server Storage**

• Fibre Channel Overview
• Fibre Channel Interfaces
• Fibre Channel Arrays
• SMF vs. MMF
• Fibre Channel Connectors
• Fibre Channel Speeds
• Fibre Channel Architectures
• iSCSI
• FCIP
• SATA
• NAS vs. SAN
• Backup Storage

Section C: Understanding RAID

• RAID Benefits
• RAID 0
• RAID 1
• RAID-5
• Complex RAID Arrays
• RAID Technologies

Section D: Configuring RAID

• Standard RAID Levels
• Nested RAID Levels
• Software-Based RAID
• Initializing Disks
• New Striped Volume
• Verify Striped Volume
• Mirrored Volume
• RAID-5 Volume
• Failed Redundancy

Section E: Server Virtualization

• Virtualization Methods
• Benefits of Virtualization
• VM Components
• VM Management
• Hyper-V

Section F: Basic Server Administration

• Hardware Compatibility
• Microsoft Hardware Compatibility Catalog
• Patch Management
• Server Monitoring
• Basic Administration Tips

Session 3

Section A: Server Maintenance

• Working with Disk Management
• Create New Simple Volume
• Advanced Disk Features
• Business Continuity
• Understanding ITIL
• Windows Update Options
• Review Update History

Section B: Processors and Memory

• Multiprocessing
• Multi vs. Dual Processors
Processes, Threads, and Fibers
64-Bit Processors
WOW32 and WOW64
64-Bit Operating Systems
Processor Features
Server Memory
Advanced Memory Features
Memory Redundancy
Selecting Memory

Section C: Performance Baselines

Performance Analysis
Creating a Baseline
Viewing Performance Reports
Processor Bottlenecks
I/O Bottlenecks
Disk Bottlenecks
Performance Counters
Trend Analysis

Section D: Troubleshooting Server Problems

Troubleshooting
Identifying the Problem
Theorize
Test the Theory
Establish and Enact the Plan
Post-Repair Testing
Root Cause Analysis
Documentation

Section E: Booting the Server

Boot Process
Advanced Boot Options
Managing Services
Service Status and Startup Type
Configuring Service Accounts
Service Recovery Options
Managing Services via Command Prompt

Section F: Using Event Viewer

Event Viewer
Viewing Events
Filtering Events
Custom Views
Assigning Tasks to Events
Event Subscription
Event Log Settings

Section G: Disaster Recovery

Disaster Recovery Plan
Handling a Disaster
- Redundancy
- Data Retention
- Data Destruction