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**MICROSOFT**

# MCSA: Windows Server 2012 Boot Camp

This training provides students with a comprehensive overview of MCSA Windows Server 2012 technologies

**BONUS! Cyber Phoenix Subscription Included:** All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

## Course Overview

The 10 day MCSA Windows Server 2012 Boot Camp supplies individuals with the fundamental knowledge of Windows Server 2012 to prepare them to earn their MCSA Windows Server 2012 certification. The learned skills augment an IT professional's career immediately. While in class, the instructor pulls information from these courses:

### 20410: Installing and Configuring Windows Server 2012

This training covers the implementation of infrastructure services for Windows Server 2012, including:

- Windows Server 2012 implementation & management
- Dynamic Host Configuration Protocol (DHCP)IPv6 for basic situations
- File & print services
- Creating group policies
- Server virtualization via Hyper-V
- Local server storage
- Implementing Domain Name System (DNS)



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## **20411: Administering Windows Server 2012**

This training covers the implementation, deployment and management of Windows Server 2012, including:

- Configure & troubleshoot name resolution
- Manage users with AD DS & Group Policy
- Implement Remote Access Solutions, including DirectAccess, VPNs & Web Application Proxy
- Manage network policies, access protection & data security
- Deploy, maintain & manage Windows Server 2012

## **70-412: Configuring Advanced Windows Server 2012 Services**

This training covers the administration of Windows Server 2012, including:

- Configure DHCP, DNS & IP Address Manager
- Plan, implement & deploy AD RMS, AD FS, AD DS & AD CS
- Deploy & manage Hyper-V virtual machines
- Implement Network Loading Balance (NLB)
- Configure & manage iSCSI, BranchCache & FSRM
- Implement backup & disaster recovery solutions

## **Private Group Class Only**

The MCSA Server 2012 is offered as a private group class non-certification exam course only.

## **Program Level**

Advanced

## **Training Delivery Methods**

Group Live

## **Duration**

10 Days / 52 hours Training



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## **CPE credits**

26 NASBA CPE Credits

## **Field of Study**

Information Technology

## **Advanced Prep**

N/A

## **Course Registration**

Candidates can choose to register for the course by via any of the below methods:

- Email: [Sales@phoenixts.com](mailto:Sales@phoenixts.com)
- Phone: 301-582-8200
- Website: [www.phoenixts.com](http://www.phoenixts.com)

Upon registration completion candidates are sent an automated course registration email that includes attachments with specific information on the class and location as well as pre-course study and test preparation material approved by the course vendor. The text of the email contains a registration confirmation as well as the location, date, time and contact person of the class.

Online enrolment closes three days before course start date.

On the first day of class, candidates are provided with instructions to register with the exam provider before the exam date.

## **Complaint Resolution Policy**

To view our complete Complaint Resolution Policy policy please click here: [Complaint Resolution Policy](#)

## **Refunds and Cancellations**

To view our complete Refund and Cancellation policy please click here: [Refund and Cancellation Policy](#)

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## Course Outline

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### 20410D: Installing and Configuring Windows Server 2012

#### Windows Server 2012 Configuration and Management

- The Installation of Windows Server 2012
- Understanding Windows Server 2012
- Server Configuration
- What is Windows PowerShell?

#### Active Directory Domain Services (AD DS)

- What are Domain Controllers?
- Domain Controller Installation

#### AD DS Objects Management

- Managing User, Group, Computer Accounts
- Administration Delegation

#### Automated AD DS Administration

- Command-Line Tools
- Windows PowerShell
- Large PowerShell Operations

#### IPv4

- IPv4 Addressing
- What is TCP/IP?
- Supernetting vs Subnetting
- IPv4 Configuration
- Troubleshooting

#### DHCP

- DHCP Server Role Installation
- DHCP Scopes Configuration
- Database Management
- Security
- Monitoring DHCP



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## DNS

- DNS Server Installation
- Windows Client and Servers Name Resolution
- DNS Zones Management

## IPv6

- ¿What is IPv6?
- IPv6 Addressing
- Relation to IPv4
- Transition Technology

## Local Storage

- Using Storage
- Disks and Volumes
- Storage Spaces

## File and Print Services

- File/Folder Security
- File Shares and Shadow Copies
- Network Printing

## Group Policy Infrastructures

- Using a Group Policy
- What is Group Policy Processing
- Central Store for Administrative Templates

## Group Policy Objects for Windows Server Security

- Securing Windows
- Managing Security Settings and Software
- Using Windows Firewall

## Server Virtualization through Hyper-V

- Useful Virtualization Technology
- Using Hyper-V
- Virtual Machine Storage
- Virtual Network Management

## **20411D - Administering Windows Server 2012**

### **Domain Name System (DNS): Troubleshooting and Configuring**

- DNS Server Role
- DNS Zones
- DNS Zone Transfers
- DNS Management and Troubleshooting

### **Active Directory Domain Services (AD DS)**

- AD DS
- Virtualized Domain Controllers - Implementation
- RODC's
- AD DS Administration
- AD DS Database Management

### **User and Service Accounts**

- Password Policy
- User Account Lockout Settings
- Managed Service Accounts

### **Group Policy Infrastructure Implementation**

- Group Policy Intro
- GPO Implementation and Administration
- Scope and Processing for Group Policy
- Troubleshooting

### **User Desktops with Group Policy**

- Administrative Templates
- Folder Redirection and Scripts
- Group Policy Preferences
- Software with Group Policy

### **Remote Access Implementation**

- Remote Access Overview
- DirectAccess with Getting Started Wizard
- Advanced DirectAccess Infrastructure Management
- VPN
- Web Application Proxy





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## **Network Policy Server Role: Installing, Configuring, Troubleshooting**

- Network Policy Server Installation
- RADIUS Clients and Servers
- NPS Authentication Methods
- Monitoring and Troubleshooting

## **Network Access Protection Implementation**

- Network Access Protection
- NAP Enforcement Processes
- NAP Configuration
- IPSec Enforcement for NAP
- Monitoring and Troubleshooting

## **File Services Optimization**

- FSRM
- FSRM for Managing File Screens, Storage Reports, Quotas
- File Management Tasks and Classification
- DFS
- DFS Namespaces Configuration
- DFS Replication Configuration and Troubleshooting

## **Advanced Auditing and Encryption**

- Encrypting Drives with BitLocker
- Encrulypting Files with EFS
- Advanced Auditing Configuration

## **Server Images: Deployment and Maintenance**

- Windows Deployment Services
- Image Management
- Windows Deployment Services Implementation
- Windows Deployment Services Administration

## **Update Management Implementation**

- WSUS
- Update Deployment Using WSUS

## **Windows Server 2012 Monitoring**

- Overview of Monitoring Tools
- Performance Monitor

- Event Logs

## 20412D - Configuring Advanced Windows Server 2012 Services

### Advanced Network Services Implementation

- Advanced DHCP Features
- Advanced DNS Settings
- IPAM Implementation
- IPAM and IP Address Spaces

### Advanced File Services Implementation

- iSCSI Storage Configuration
- BranchCache Configuration
- Storage Usage Optimization

### Dynamic Access Control Implementation

- DAC Review
- DAC Components
- DAC and Access Control
- Access Denied Assistance
- Work Folders Management

### Distributed AD DS Deployments

- Distributed AD DS Deployments Review
- Distributed AD DS Environment Deployment
- AD DS Trusts Configuration

### AD DS Sites and Replication Implementation

- Reviewing AD DS Replication
- AD DS Sites
- AD DS Replication - Configuration and Monitoring

### Active Directory Certificate Services

- Certificates Purpose in an Enterprise Environment
- PKI
- CAs Deployment
- Certificate Templates
- Certificate Distribution and Revocation



- Certificate Recovery

## Active Directory Rights Management Services Implementation

- Reviewing AD RMS
- AD RMS Infrastructure Deployment and Management
- AD RMS Content Protection
- AD RMS and External Access

## Active Directory Federation Services

- AD FS Review
- AD FS Deployment
- AD FS Implementation for One Organization
- Business-to-Business Federation Scenario and AD FS
- AD FS and External Clients

## Network Load Balancing

- NLB Review
- NLB Cluster Configuration and Mangement
- NLB Cluster and High Availability

## Failover Clustering Implementation

- Reviewing Failover Clustering
- Failover Cluster Implementation
- Services and Highly Available Applications for Failover Cluster
- Failover Cluster Maintenance
- Multi-Site Failover Cluster

## Failover Clustering with Hyper-V

- Integrating Hyper-V and Failover Clustering
- Hyper-V Virtual Machines and Failover Clusters
- Hyper-V Virtual Machine Movement
- Utilizing VMM for Hyper-V Virtual Environments

## Business Continuity and Disaster Recovery Implementation

- Data Protection
- Windows Server Backup
- Data and Server Recovery



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## Exam Information

**\*NOTE\* - The Windows Server 2106 Exams (70-410, 70-411 & 70-412) retired on January 31, 2021.**

### Exam 70-410: Installing and Configuring Windows Server 2012

| Exam Objective                                  | Percentage of Exam |
|---|--------------------|
| Installing and Configuring Servers              | 15-20%             |
| Configuring Server Roles and Features           | 15-20%             |
| Configuring Hyper-V                             | 15-20%             |
| Deploying and Configuring Core Network Services | 15-20%             |
| Creating and Managing Group Policy              | 15-20%             |

### Exam 70-411: Administering Windows Server 2012

| Exam Objective   | Percentage of Exam |
|--|--------------------|
| Deploying, Managing and Maintaining Servers            | 15-20%             |
| Configuring File and Print Services                    | 15-20%             |
| Configuring Network Services and Access                | 15-20%             |
| Configuring Network Policy Server (NPS) Infrastructure | 15-20%             |
| Creating and Managing Group Policy                     | 15-20%             |

### Exam 70-412: Configuring Advanced Windows Server 2012 Services

| Exam Objective                             | Percentage of Exam |
|--|--------------------|
| Configuring and Managing High Availability |                    |
| Configuring File and Storage Solutions     | 15-20%             |

|  |        |
|--|--------|
| Implementing Business Continuity and Disaster Recovery | 15-20% |
| Configuring Network Services                           | 15-20% |
| Configuring the Active Directory Infrastructure        | 15-20% |
| Configuring Identity and Access Solutions              | 15-20% |

You can purchase the exam voucher separately through Phoenix TS. Phoenix TS is an authorized testing center for Pearson VUE and Prometric websites. Register for exams by calling us or visiting the Pearson VUE and Prometric websites.

## MCSA: Windows Server 2012 Boot Camp FAQs

### Who should attend this training?

IT professionals who hold familiarity with Windows Server 2012 and want to secure positions as Network Administrators or Computer Network Specialists.

### What are the prerequisites for this training?

Students should have knowledge and experience with Windows Server 2008 or Windows Server 2012, networking fundamentals, Active Directory Domain Services (AD DS), authentication and authorization, Windows operating system installations and maintenance, Microsoft Hyper-V

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