

Microsoft Windows 7 Boot Camp Courses

**Bootcamp Title – MCSA: Windows 7 (1 Cert)**   
Number of Days – 5  
Number of Exams – 2  
Number of Certifications – 1  
Cost - $4,495.00

Certifications:

MCSA: Windows 7

Exams:

**70-680:** Windows 7, Configuring

**70-685:** Windows 7, Enterprise Desktop Support Technician

Course Description:

The MCSA Windows 7 certification boot camp is a 5 day comprehensive deep dive into Windows 7 covering topics such as installation, migrating, and networking. This instructor led face to face training camp will teach you the skills needed to support a Windows 7 environment.

Class Objectives (*Following information customized from Microsoft Learning Test Objectives)*

**Module 1: Installing, Upgrading, and Migrating to Windows 7**

This module explains how to install, upgrade and migrate to Windows 7. It also describes the key features, editions, and hardware requirements of Windows 7.

**Lessons**

* Preparing to Install Windows 7
* Performing a Clean Installation of Windows 7
* Upgrading and Migrating to Windows 7
* Performing Image-based Installation of Windows 7
* Configuring Application Compatibility

**Lab : Installing and Configuring Windows 7**

After completing this module, students will be able to:

* Describe the key features, editions, and hardware requirements of Windows 7.
* Perform a clean installation of Windows 7
* Upgrade and Migrate to Windows 7 from an earlier version of Windows.
* Perform an image-based installation of Windows 7
* Resolve common application compatibility issues.

**Module 2: Configuring Disks and Device Drivers**

This module examines how to configure disks, partitions, volumes, and device drivers to enable Windows 7 to function as desired.

**Lessons**

* Partitioning Disks in Windows 7
* Managing Disk Volumes
* Maintaining Disks in Windows 7
* Installing and Configuring Device Drivers

**Lab : Configuring Disks and Device Drivers**

After completing this module, students will be able to:

* Configure disk partitions on a Windows 7 client computer
* Create and manage disk volumes
* Manage file system fragmentation and disk quotas
* Install and configure device drivers

**Module 3: Configuring File Access and Printers on Windows 7 Client Computers**

This module explains how to manage access to shared folders and printers on a computer running Windows 7. Specifically, it describes how to share and secure folders, configure folder compression, and how to install, configure, and administer printing.

**Lessons**

* Overview of Authentication and Authorization
* Managing File Access in Windows 7
* Managing Shared Folders
* Configuring File Compression
* Managing Printing

**Lab : Configuring File Access and Printers on Windows 7 Client Computers**

After completing this module, students will be able to:

* Describe authentication and authorization
* Manage file access on a Windows 7 client computer
* Create and manage shared folders
* Configure file compression
* Install, configure, and administer printers

**Module 4: Configuring Network Connectivity**

This module explains both IPv4 and IPv6 network connectivity. It also describes how to implement automatic IP Address Allocation and troubleshoot network connectivity.

**Lessons**

* Configuring IPv4 Network Connectivity
* Configuring IPv6 Network Connectivity
* Implementing Automatic IP Address Allocation
* Overview of Name Resolution
* Troubleshooting Network Issues

**Lab : Configuring Network Connectivity**

After completing this module, students will be able to:

* Configure IPv4 network connectivity.
* Configure IPv6 network connectivity.
* Implement automatic IP address allocation.
* Troubleshoot common network related issues by using the tools available in Windows 7.

**Module 5: Configuring Wireless Network Connections**

This module describes key wireless network technologies and how to configure wireless network components and the Windows 7 elements that are necessary to access wireless networks.   
**Lessons**

* Overview of Wireless Networks
* Configuring a Wireless Network

**Lab : Configuring Wireless Network Connections**

After completing this module, students will be able to:

* Describe the standards and technologies related to wireless network connections.
* Configure a wireless network connection.

**Module 6: Securing Windows 7 Desktops**

This module describes how to make a Windows 7 computer more secure while ensuring usability is not sacrificed in the process. Specifically, it describes Windows Firewall, User Account Control, Windows Defender, and Security in Internet Explorer 8.**Lessons**

* Overview of Security Management in Windows 7
* Securing a Windows 7 Client Computer by Using Local Security Policy Settings
* Securing Data by Using EFS and BitLocker
* Configuring Application Restrictions
* Configuring User Account Control
* Configuring Windows Firewall
* Configuring Security Settings in Internet Explorer 8
* Configuring Windows Defender

**Lab : Configuring UAC, Local Security Policies, EFS, and AppLocker**

**Lab : Configuring Windows Firewall, Internet Explorer 8 Security Settings, and Windows Defender**

After completing this module, students will be able to:

* Explain the security management features of Windows 7.
* Configure local security policy settings on a Windows 7 client computer.
* Secure data by using EFS and BitLocker.
* Configure application restrictions by using AppLocker.
* Configure user account control settings.
* Configure Windows Firewall on a Windows 7 client computer.
* Configure security-related settings in Internet Explorer to help protect a Windows 7 client computer that is connected to the Internet.
* Configure Windows Defender to help protect a Windows 7 client computer against malicious software.

**Module 7: Optimizing and Maintaining Windows 7 Client Computers**

This module describes how to use the monitoring and configuration tools to obtain information about Windows 7 performance and how to troubleshoot performance and reliability problems.

**Lessons**

* Maintaining Performance by Using the Windows 7 Performance Tools
* Maintaining Reliability by Using the Windows 7 Diagnostic Tools
* Backing Up and Restoring Data by Using Windows Backup
* Restoring a Windows 7 System by Using System Restore Points
* Configuring Windows Update

**Lab : Optimizing and Maintaining Windows 7 Client Computers**

After completing this module, students will be able to:

* Maintain the performance of a Windows 7 client computer by using performance management tools.
* Maintain reliability of a Windows 7 client computer by using the diagnostic tools.
* Back up and restore data on a Windows 7 client computer by using Windows Backup.
* Restore a Windows 7 system by using system restore points.
* Configure Windows Update on a Windows 7 client computer.

**Module 8: Configuring Mobile Computing and Remote Access in Windows 7**This module explains how to configure mobile devices and remote access. It also discusses DirectAccess and BranchCache which are new for Windows 7.**Lessons**

* Configuring Mobile Computer and Device Settings
* Configuring Remote Desktop and Remote Assistance for Remote Access
* Configuring DirectAccess for Remote Access
* Configuring BranchCache for Remote Access

**Lab : Configuring Mobile Computing and Remote Access in Windows 7**

After completing this module, students will be able to:

* Configure mobile computer and device settings on a Windows 7 client computer.
* Configure Remote Desktop and Remote Assistance on a Windows 7 client computer.
* Configure DirectAccess on a Windows 7 client computer for remote access.
* Configure BranchCache on a branch office Windows 7 client computer.

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| **Module 1: Implementing a Troubleshooting Methodology**  This module describes the steps involved in establishing and using a typical troubleshooting methodology. It also covers the job role and responsibilities of the EDST.  **Lessons**   * Lesson 1: Introduction to the EDST Job Role * Lesson 2:  Overview of Troubleshooting Steps   After completing this module, students will be able to:   * Describe the job role of the EDST. * Describe the steps of a typical troubleshooting methodology.   **Module 2: Troubleshooting Startup Issues**  This module describes how to use Windows 7 recovery tools to troubleshoot startup problems. Additionally, it provides the information to configure and troubleshoot startup settings, and to troubleshoot operating system services.  **Lessons**   * Lesson 1: Overview of the Windows 7 Recovery Environment * Lesson 2: Configuring and Troubleshooting Startup Settings * Lesson 3: Troubleshooting Operating System Services Issues   **Lab : Troubleshooting Startup Issues**  After completing this module, students will be able to:   * Use Windows 7 recovery tools to troubleshoot startup problems. * Configure and troubleshoot startup settings. * Troubleshoot operating system services.   **Module 3: Using Group Policy to Centralize Configuration**  This module describes Group Policy application. It also covers steps to troubleshoot both client configuration failures and GPO application issues.  **Lessons**   * Lesson 1: Overview of Group Policy Application * Lesson 2: Resolving Client Configuration Failures and GPO Application Issues   **Lab : Using Group Policy to Centralize Configuration**  After completing this module, students will be able to:   * Describe Group Policy application. * Troubleshoot client configuration failures and GPO application issues.   **Module 4: Troubleshooting Hardware Device, Device Driver, and Performance Issues**  This module helps students troubleshoot issues related to hardware devices and device drivers by identifying basic hardware-related issues. Additionally, the module helps students determine hardware failure issues, and the problems that device drivers can cause. Finally, this module provides guidance on how to configure performance options in Windows 7, as well as monitor reliability and performance of Windows 7 computers.  **Lessons**   * Lesson 1: Overview of Hardware Troubleshooting * Lesson 2: Troubleshooting Physical Failures * Lesson 3: Monitoring Reliability and Performance * Lesson 4: Configuring Performance Options in Windows 7 * Lesson 5: Troubleshooting Device Driver Failures   **Lab : Lab A: Resolving Hardware Device and Device Driver Issues**  **Lab : Lab B: Troubleshooting Performance-Related Issues**  After completing this module, students will be able to:   * Identify basic hardware-related issues. * Determine hardware failure issues. * Monitor reliability and performance of Windows 7 computers. * Configure performance options in Windows 7. * Determine problems that device drivers cause.   **Module 5: Troubleshooting Network Connectivity Issues**  This module describes how to troubleshoot issues related to network connectivity by providing the steps to determine the network configuration of client computers, and then to troubleshoot network connections.  **Lessons**   * Lesson 1: Determining Network Settings * Lesson 2: Troubleshooting Network Connectivity Issues   **Lab : Troubleshooting Network Connectivity Issues**  After completing this module, students will be able to:   * Determine the network configuration of client computers. * Troubleshoot network connections.   **Module 6: Troubleshooting Remote Connectivity Issues**  This module describes how to troubleshoot remote connectivity issues. This module instructs students on how to configure and troubleshoot virtual private network (VPN) connections, as well as how to use Remote Desktop and Remote Assistance to assist users. This module also covers the troubleshooting steps for Network Access Protection (NAP) and DirectAccess issues.  **Lessons**   * Lesson 1: Troubleshooting VPN Connectivity Issues * Lesson 2: Using Remote Desktop * Lesson 3: Troubleshooting User Issues by Using Remote Assistance * Lesson 4: Troubleshooting NAP Issues * Lesson 5: Troubleshooting DirectAccess Issues   **Lab : Resolving Remote Connectivity Issues**  After completing this module, students will be able to:   * Configure and troubleshoot VPN connections. * Use Remote Desktop. * Use Remote Assistance. * Troubleshoot NAP issues. * Troubleshoot DirectAccess issues.   **Module 7: Troubleshooting Logon and Resource Access Issues**  This module describes how to use troubleshooting tools and methods to troubleshoot user profile and logon scripts issues, and issues with file and printer access.  **Lessons**   * Lesson 1: Troubleshooting User Logon Issues * Lesson 2: Troubleshooting User Profile Issues * Lesson 3: Troubleshooting File Access Issues * Lesson 4: Troubleshooting File Permissions Issues * Lesson 5: Troubleshooting Printer Access Issues   **Lab : Troubleshooting Logon and Resource Access Issues**  After completing this module, students will be able to:   * Troubleshoot user logon issues. * Troubleshoot user profile issues. * Troubleshoot file access issues. * Troubleshoot file permissions issues. * Troubleshoot printer access issues.   **Module 8: Troubleshooting Security Issues**  This module describes how to troubleshoot issues related to security systems such as EFS, BitLocker, and file permissions. The module instructs students how to troubleshoot and recover files encrypted with EFS and BitLocker-protected drives. In this module, students also troubleshoot file permissions, content access issues, and Windows Internet Explorer issues.  **Lessons**   * Lesson 1: Recovering Files Encrypted by EFS * Lesson 2: Recovering BitLocker-Protected Drives * Lesson 3: Troubleshooting Internet Explorer and Content Access Issues   **Lab : Troubleshooting Security Issues**  After completing this module, students will be able to:   * Recover files encrypted by using EFS. * Recover BitLocker-protected drives. * Troubleshoot Internet Explorer and content access issues.   **Module 9: Troubleshooting Operating System and Application Issues**  This module describes how to troubleshoot issues related to operating system features and applications, including application installation and operation issues. This module also addresses applying application and Windows updates.  **Lessons**   * Lesson 1: Troubleshooting Application Installation Issues * Lesson 2: Troubleshooting Application Operations Issues * Lesson 3: Applying Application and Windows Updates   **Lab : Troubleshooting Operating System and Application Issues**  After completing this module, students will be able to:   * Troubleshoot application installation issues. * Troubleshoot application operation issues. * Apply application and Microsoft Windows updates |
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