



Complete Computing, Inc.

SERVING OUR CUSTOMERS SINCE 1982

20697M-1&2 Combo: Implementing, Deploying and Managing Windows® 10

Course length: 5 day(s)

Course Description

This course is designed to maximize student skills and knowledge of Microsoft Windows 10 while minimizing time out of the office and reducing training costs. The course merges all of the most critical material from two 5-day courses (*20697-1: Installing and Configuring Windows 10* and *20697-2: Deploying and Managing Windows 10 Using Enterprise Services*) into a single 5-day format. The student will receive the full courseware from both courses as well as **6-months of access to virtual lab** environments for both courses to continue practicing and toning their skills and delve into any additional courseware topics that may be of interest.

20697-Part1 provides students with the knowledge and skills required to install and configure Windows 10 desktops and devices in a Windows Server domain corporate environment. These skills include learning how to install and customize Windows 10 operating systems and apps, and configure local and remote network connectivity and storage. Students will also learn how to configure data security, device security, and network security, and maintain, update, and recover Windows 10.

20697-Part2 provides administrators with the knowledge and skills needed deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment. These skills include learning how to install and customize Windows 10 operating systems and apps, and configure local and remote network connectivity and storage. Students will also learn how to configure data security, device security, and network security, and maintain, update, and recover Windows 10. Students will learn how to plan and implement Windows 10 deployments in large organizations. Students also learn how to manage the Windows 10 installations after deployment to provide secure identity and data access using technologies related to Group Policy, Remote Access, and Workplace Join. To support a variety of device and data management solutions, Microsoft Azure Active Directory, and Microsoft Azure Rights Management are introduced. These services are part of the Enterprise Mobility Suite which provide identity and access management, cloud-based device, application, and update management, and secure data access to information stored both in the cloud and on any location within your corporate network.

Audience Profile

This course is intended for IT professionals who administer and support Windows 10 desktops, devices, users, and associated network and security resources as well as IT professionals who are interested in specializing in Windows 10 desktop and application deployments and managing the cloud-based application and data service environments for medium-to-large enterprise organizations. These professionals typically work with networks that are configured as Windows Server domain-based environments with managed access to the Internet and cloud services. This course is also intended to provide skills for Enterprise Desktop/Device Support Technicians (EDSTs) who provide Tier 2 support to users who run Windows 10 desktops and devices within a Windows domain environment in medium to large enterprise organizations.

This course is also intended to provide skills for individuals who seek to pass the 70-697 Windows 10 Configuring exam.



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Prerequisites

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- At least two years of experience in the IT field.
- Knowledge of networking fundamentals, including Transmission Control Protocol /Internet Protocol (TCP/IP), User Datagram Protocol (UDP), and Domain Name System (DNS).
- Knowledge of Microsoft Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management.
- Understanding of Windows Server 2008 R2 or Windows Server 2012 fundamentals.
- Understanding of Microsoft Windows Client essentials; for example, working knowledge of Windows 7, Windows 8 and/or Windows 10.
- Basic understanding of Windows PowerShell syntax.

Course Content

(Modules listed in grey with an asterisk indicate flex topics that will be covered based on instructor discretion and classroom input, as time allows, or as self-study. The virtual labs for all modules and associated practice activities will be available for 6-months from the start of the class.)

20697- Part 1

Module 1: Overview of Windows 10

- **Introducing Windows 10**
- **Navigating the User Interface**

Module 2: Installing Windows 10

- **Installing Windows 10**
- **Upgrading to Windows 10**

Module 3: Configuring Your Device

- **Overview of Tools Used to Configure Windows 10**
- **Common Configuration Options**
- **Managing User Accounts**
- **Using OneDrive**

Module 4: Configuring Network *

- Configuring IP Network Connectivity
- Implementing Name Resolution
- Implementing Wireless Network Connectivity
- Overview of Remote Access

Module 5: Managing Storage *

- Overview of Storage Options
- Managing Disks, Partitions, and Volumes
- Maintaining Disks and Volumes
- Managing Storage Spaces



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Module 6: Managing Files and Printers

- **Overview of File Systems**
- **Configuring and Managing File Access**
- **Configuring and Managing Shared Folders**
- **Work Folders**
- **Managing Printers**

Module 7: Managing Apps in Windows 10 *

- Overview of Providing Apps to Users
- The Windows Store
- Web Browsers

Module 8: Managing Data Security

- **Overview of Data-Related Security Threats**
- **Securing Data with EFS**
- **Implementing and Managing BitLocker**

Module 9: Managing Device Security

- **Using Security Settings to Mitigate Threats**
- **Configuring UAC**

Module 10: Managing Network Security *

- Overview of Network-Related Security Threats
- Windows Firewall
- Connection Security Rules
- Windows Defender

Module 11: Maintaining Windows 10

- Updating Windows
- Monitoring Windows 10
- Optimizing Performance

Module 12: Troubleshooting and Recovery

- **Managing Devices and Drivers**
- **Recovering Files**
- **Recovering Devices**

20697- Part 2BC: Course Content

Module 1: Managing Desktops and Devices in an Enterprise Environment *

- Managing Windows 10 in the Enterprise
- Managing a Mobile Workforce
- Supporting Devices in the Enterprise
- Extending IT Management and Services to the Cloud
- Support devices in the enterprise.
- Extend IT management and services to the cloud.

Module 2: Deploying Windows 10 Enterprise Desktops

- **Overview of Windows 10 Enterprise Deployment**
- **Customizing Enterprise Desktop Deployments**
- **Deploying Windows 10 by Using the Microsoft Deployment Toolkit**
- **Maintaining a Windows 10 Installation**
- **Managing Volume License Activation for Windows 10**



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Module 3: Managing User Profiles and User State Virtualization *

- Managing User Profile and User State
- Implementing User State Virtualization by Using Group Policy
- Configuring User Experience Virtualization
- Managing User State Migration

Module 4: Managing Desktop and Application Settings by Using Group Policy

- **Managing Group Policy Objects**
- **Configuring Enterprise Desktops Using Group Policy**
- **Overview of Group Policy Preferences**

Module 5: Managing Windows 10 Sign-In and Identity

- **Overview of Enterprise Identity**
- **Planning for Cloud Identity Integration**

Module 6: Managing Data Access for Windows-based Devices

- **Overview of Data Access Solutions**
- **Implementing Device Registration**
- **Implementing Work Folders**
- **Managing Online Data Using Cloud-Based Storage Solutions**

Module 7: Managing Remote Access Solutions *

- Overview of Remote Access Solutions
- Configuring VPN Access to Remote Networks
- Using DirectAccess with Windows 10
- Supporting RemoteApp

Module 8: Managing Windows 10 Devices Using Enterprise Mobility Solutions *

- Overview of the Enterprise Mobility Suite
- Overview of Azure Active Directory Premium
- Overview of Azure Rights Management
- Overview of Microsoft Intune

Module 9: Managing Desktop and Mobile Clients Using Microsoft Intune *

- Deploying the Intune Client Software
- Overview of Microsoft Intune Policies
- Mobile Device Management Using Intune

Module 10: Managing Updates and Endpoint Protection Using Microsoft Intune *

- Managing Updates Using Microsoft Intune
- Managing Endpoint Protection

Module 11: Application and Resource Access Using Microsoft Intune *

- Overview of Application Management Using Intune
- The Application Deployment Process
- Controlling Access to Company Resources

Module 12: Configuring and Managing Client Hyper-V

- **Installing and Configuring Client Hyper-V**
- **Configuring Virtual Switches**
- **Creating and Managing Virtual Hard Disks**
- **Creating and Managing Virtual Machines**