

TestOut®

TestOut Client Pro – English 5.1.x

Objective Mappings:

TestOut Client Pro

MS 70-698

MS 70-697

MS 70-680

Contents

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Objective Mapping: LabSim Section to TestOut Client Pro Objective

Section	Title	Objectives for Client Pro Exam
1.0	Course Introduction	
1.1	Course Introduction	
1.2	Windows User Interface Overview	
1.3	Windows as a Client	
1.4	Active Directory	
2.0	Hardware Management	
2.1	Devices and Drivers	
2.2	Device Driver Troubleshooting	4.0 Hardware Manage devices and drivers.
2.3	Display Management	4.0 Hardware Customize display settings.
2.4	Disk File Systems	5.0 Storage Configure file systems, partitions, volumes, and RAID.

2.5	Partition and Volume Management	5.0 Storage Configure file systems, partitions, volumes, and RAID.
2.6	Volume Resizing	5.0 Storage Configure file systems, partitions, volumes, and RAID.
2.7	RAID	5.0 Storage Configure file systems, partitions, volumes, and RAID.
2.8	Storage Spaces	5.0 Storage Implement Storage Spaces.
2.9	Disk Optimization	5.0 Storage Optimize and troubleshoot disks.
2.10	Removable Storage	5.0 Storage Configure file systems, partitions, volumes, and RAID.
2.11	OneDrive Storage	6.0 Storage Configure OneDrive.
2.12	Storage Troubleshooting	5.0 Storage

		Optimize and troubleshoot disks.
3.0	Network Configuration	
3.1	IPv4	6.0 Networking Configure and troubleshoot IPv4 and IPv6 addressing.
3.2	IPv6	6.0 Networking Configure and troubleshoot IPv4 and IPv6 addressing.
3.3	IP Configuration	6.0 Networking Configure and troubleshoot IPv4 and IPv6 addressing.
3.4	IP Troubleshooting	6.0 Networking Configure and troubleshoot IPv4 and IPv6 addressing.
3.5	Wireless Networking Overview	6.0 Networking Configure wireless networks and wireless profiles.
3.6	Wireless Networking Configuration	6.0 Networking Configure wireless networks and wireless profiles.

3.7	Windows Firewall	6.0 Networking Configure Windows Firewall.
3.8	Windows Firewall with Advanced Security (WFAS)	6.0 Networking Configure Windows Firewall.
4.0	Application Management	
4.1	Desktop Applications	3.0 Applications and services Manage Windows applications.
4.2	User Account Control (UAC)	3.0 Applications and services Configure user account control (UAC) settings.
4.3	Application Compatibility	3.0 Applications and services Manage Windows applications.
4.4	Application Virtualization	3.0 Applications and services Manage Windows applications. Manage services on a Windows system.
4.5	Windows Store Apps	3.0 Applications and services

		Manage Windows applications.
4.6	Sideloaded Apps	3.0 Applications and services Manage Windows applications.
4.7	Cloud-based Applications	3.0 Applications and services Manage Windows applications.
5.0	System Access	
5.1	Authentication and Authorization	2.0 Access Create and manage user and group accounts.
5.2	Authentication Management	2.0 Access Create and manage user and group accounts.
5.3	User Rights and Account Policies	2.0 Access Configure user rights and account policies.
5.4	Credential Management	2.0 Access Configure user rights and account policies.
5.5	Alternative Authentication Options	2.0 Access

		Create and manage user and group accounts.
5.6	NTFS Permissions	2.0 Access Restrict access to files and folders using encryption and NTFS.
5.7	Auditing	
5.8	Dynamic Access Control (DAC)	
5.9	Encryption	2.0 Access Restrict access to files and folders using encryption and NTFS.
6.0	Resource Sharing	
6.1	Resource Sharing	6.0 Networking Share network resources.
6.2	Shared Resource Troubleshooting	6.0 Networking Share network resources.
6.3	Libraries and HomeGroups	6.0 Networking Share network resources.
6.4	Distributed File System (DFS)	6.0 Networking

		Share network resources.
6.5	Printer Management and Sharing	7.0 Printing Install and configure local printers. Configure default printers. Install and configure shared printers.
7.0	Windows Installation	
7.1	Windows Versions	1.0 Windows installation and configuration Install and activate the version and edition of Windows that meets end-user requirements.
7.2	Windows Installation	1.0 Windows installation and configuration Implement hardware that meets Windows' system requirements.
7.3	Windows Activation	1.0 Windows installation and configuration Install and activate the version and edition of Windows that meets end-user requirements.
7.4	Windows Post-Installation Configuration	1.0 Windows installation and configuration Perform Windows post-installation configuration tasks.
7.5	Web Browser Configuration	1.0 Windows installation and configuration Configure Internet and web browser options for security and privacy.

7.6	Portable Windows Installations	1.0 Windows installation and configuration Create a portable installation of Windows.
7.7	Windows Upgrade	
7.8	User Profile and Data Migration	
7.9	VHD Installation	1.0 Windows installation and configuration Install Windows on a virtual hard disk (VHD).
7.10	Client-Side Virtualization	1.0 Windows installation and configuration Implement client-side virtualization.
8.0	System Imaging	
8.1	System Images	
8.2	Image Deployment	
8.3	Image Servicing	
8.4	Provisioning Packages	
9.0	Mobile Computing	
9.1	Mobile Device Management	
9.2	Virtual Private Network (VPN)	2.0 Access Configure VPN connections.

9.3	DirectAccess	2.0 Access Enable DirectAccess, remote access, and remote assistance.
9.4	BitLocker	
9.5	BitLocker To Go	
9.6	Mobile Device Security	3.0 Applications and services Manage Windows applications. Configure location settings for location-aware apps.
9.7	Power Management	4.0 Hardware Optimize hardware performance, power management, and virtual memory.
9.8	Mobility Options	5.0 Storage Configure offline files.
9.9	Mobile Networking	
9.10	Mobile Apps	
9.11	User Experience Virtualizaion	
10.0	System Monitoring and Maintenance	
10.1	System Tools	3.0 Applications and services Manage services on a Windows system.

10.2	System Events	8.0 System Protection Monitor a Windows operating system.
10.3	Performance Management	8.0 System Protection Monitor a Windows operating system.
10.4	Resource Monitoring	8.0 System Protection Monitor a Windows operating system.
10.5	Reliability and Performance Maintenance	8.0 System Protection Monitor a Windows operating system.
10.6	Optimization	4.0 Hardware Optimize hardware performance, power management, and virtual memory.
10.7	Remote Management	2.0 Access Enable DirectAccess, remote access, and remote assistance.
10.8	Remote Desktop and Remote Assistance	2.0 Access Enable DirectAccess, remote access, and remote assistance.
11.0	System Protection	
11.1	System Updates	8.0 System Protection

		Configure Windows update.
11.2	System Protection	8.0 System Protection Protect a Windows system by creating restore points. Protect data on a Windows system by configuring data backups and recovering data from backups.
11.3	System Backup	8.0 System Protection Protect data on a Windows system by configuring data backups and recovering data from backups.
11.4	System Restore	8.0 System Protection Protect a Windows system by creating restore points. Protect data on a Windows system by configuring data backups and recovering data from backups. Protect files with File History.
11.5	File History	8.0 System Protection Protect data on a Windows system by configuring data backups and recovering data from backups. Protect files with File History.
11.6	Recovery Environment	8.0 System Protection Protect data on a Windows system by configuring data backups and recovering data from backups.
11.7	Malware Protection	8.0 System Protection Configure Windows Defender.

Objective Mapping: TestOut Client Pro Objective to LabSim Section

#	Exam Objective	Module.Section
1.0	<p>Windows installation and configuration</p> <ul style="list-style-type: none"> Implement hardware that meets Windows' system requirements. Install and activate the version and edition of Windows that meets end-user requirements. Perform Windows post-installation configuration tasks. Configure Internet and web browser options for security and privacy. Create a portable installation of Windows. Install Windows on a virtual hard disk (VHD). Implement client-side virtualization. 	<p>7.1, 7.2, 7.3 7.4, 7.5, 7.6 7.9, 7.10</p>
2.0	<p>Access</p> <ul style="list-style-type: none"> Create and manage user and group accounts. Configure user rights and account policies. Restrict access to files and folders using encryption and NTFS. Configure VPN connections. Enable DirectAccess, remote access, and remote assistance. 	<p>5.1, 5.2, 5.3 5.4, 5.5, 5.6 5.9, 9.2, 9.3 10.7, 10.8</p>
3.0	<p>Applications and services</p> <ul style="list-style-type: none"> Manage Windows applications. Manage services on a Windows system. Configure location settings for location-aware apps. Configure user account control (UAC) settings. 	<p>4.1, 4.2, 4.3, 4.4 4.5, 4.6, 4.7 9.6, 10.1</p>
4.0	<p>Hardware</p> <ul style="list-style-type: none"> Manage devices and drivers. Customize display settings. Optimize hardware performance, power management, and virtual memory. 	<p>2.1, 2.2, 2.3 9.7 10.6</p>

5.0	<p>Storage</p> <p>Configure file systems, partitions, volumes, and RAID. Implement Storage Spaces. Optimize and troubleshoot disks. Configure OneDrive. Configure offline files.</p>	<p>2.4, 2.5, 2.6 2.7, 2.8, 2.9 2.10, 2.11, 2.12 9.8</p>
6.0	<p>Networking</p> <p>Configure and troubleshoot IPv4 and IPv6 addressing. Configure wireless networks and wireless profiles. Configure Windows Firewall. Share network resources.</p>	<p>3.1, 3.2, 3.3, 3.4 3.5, 3.6, 3.7, 3.8 6.1, 6.2, 6.3, 6.4</p>
7.0	<p>Printing</p> <p>Install and configure local printers. Configure default printers. Install and configure shared printers.</p>	<p>6.5</p>
8.0	<p>System Protection</p> <p>Monitor a Windows operating system. Configure Windows update. Protect a Windows system by creating restore points. Protect data on a Windows system by configuring data backups and recovering data from backups. Protect files with File History. Configure Windows Defender.</p>	<p>10.2, 10.3, 10.4, 10.5 11.1, 11.2, 11.3 11.4, 11.5, 11.6, 11.7</p>

Objective Mapping: LabSim Section to MS 70-698 Objective

Section	Title	Objectives for MS 70-698 Exam
1.0	Course Introduction	
1.1	Course Introduction	
1.2	Windows User Interface Overview	<p>104 Perform post-installation configuration</p> <p>Configure and customize start menu, desktop, taskbar, and notification settings, according to device type; configure accessibility options; configure Cortana; configure Microsoft Edge; configure Internet Explorer; configure Hyper-V; configure power settings.</p>
1.3	Windows as a Client	
1.4	Active Directory	<p>105 Implement Windows in an enterprise environment</p> <p>Provision with the Windows Imaging and Configuration Designer (ICD) tool; implement Active Directory-based activation; implement volume activation using a Key Management Service (KMS); query and configure activation states using the command line; configure Active Directory, including Group Policies; configure and optimize user account control (UAC).</p>
2.0	Hardware Management	
2.1	Devices and Drivers	<p>103 Configure devices and device drivers</p> <p>Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.</p>

2.2	Device Driver Troubleshooting	<p>103 Configure devices and device drivers</p> <p>Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.</p> <p>305 Configure advanced management tools</p> <p>Configure services, configure Device Manager, configure and use the MMC, configure Task Scheduler, configure automation of management tasks using Windows PowerShell.</p>
2.3	Display Management	<p>103 Configure devices and device drivers</p> <p>Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.</p>
2.4	Disk File Systems	
2.5	Partition and Volume Management	<p>202 Configure storage</p> <p>Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.</p>
2.6	Volume Resizing	<p>202 Configure storage</p> <p>Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure</p>

		VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.
2.7	RAID	202 Configure storage Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.
2.8	Storage Spaces	202 Configure storage Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.
2.9	Disk Optimization	203 Configure data access and usage Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.
2.10	Removable Storage	202 Configure storage Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.
2.11	OneDrive Storage	203 Configure data access and usage

		<p>Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.</p> <p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>
2.12	Storage Troubleshooting	<p>202 Configure storage</p> <p>Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.</p>
3.0	Network Configuration	
3.1	IPv4	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
3.2	IPv6	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall</p>

		with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.
3.3	IP Configuration	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
3.4	IP Troubleshooting	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
3.5	Wireless Networking Overview	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>

3.6	Wireless Networking Configuration	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
3.7	Windows Firewall	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
3.8	Windows Firewall with Advanced Security (WFAS)	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
4.0	Application Management	
4.1	Desktop Applications	<p>204 Implement apps</p> <p>Configure desktop apps, configure startup options, configure Windows features, configure Windows Store, implement Windows</p>

		Store apps, implement Windows Store for Business, provision packages, create packages, use deployment tools, use the Windows Assessment and Deployment Kit (ADK).
4.2	User Account Control (UAC)	304 Configure authorization and authentication Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.
4.3	Application Compatibility	
4.4	Application Virtualization	
4.5	Windows Store Apps	204 Implement apps Configure desktop apps, configure startup options, configure Windows features, configure Windows Store, implement Windows Store apps, implement Windows Store for Business, provision packages, create packages, use deployment tools, use the Windows Assessment and Deployment Kit (ADK).
4.6	Sideloaded Apps	
4.7	Cloud-based Applications	
5.0	System Access	

5.1	Authentication and Authorization	<p>304 Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.</p>
5.2	Authentication Management	<p>304 Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.</p>
5.3	User Rights and Account Policies	
5.4	Credential Management	<p>304 Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.</p>
5.5	Alternative Authentication Options	<p>304 Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager,</p>

		configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.
5.6	NTFS Permissions	
5.7	Auditing	
5.8	Dynamic Access Control (DAC)	
5.9	Encryption	
6.0	Resource Sharing	
6.1	Resource Sharing	203 Configure data access and usage Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.
6.2	Shared Resource Troubleshooting	203 Configure data access and usage Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.
6.3	Libraries and HomeGroups	203 Configure data access and usage Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file

		<p>system permissions; configure OneDrive usage; troubleshoot data access and usage.</p> <p>304 Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.</p>
6.4	Distributed File System (DFS)	
6.5	Printer Management and Sharing	<p>203 Configure data access and usage</p> <p>Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.</p>
7.0	Windows Installation	
7.1	Windows Versions	<p>101 Prepare for installation requirements</p> <p>Determine hardware requirements and compatibility; choose between an upgrade and a clean installation; determine appropriate editions according to device type; determine requirements for particular features, such as Hyper-V, Cortana, Miracast, Virtual Smart Cards, and Secure Boot; determine and create appropriate installation media.</p>
7.2	Windows Installation	101 Prepare for installation requirements

		<p>Determine hardware requirements and compatibility; choose between an upgrade and a clean installation; determine appropriate editions according to device type; determine requirements for particular features, such as Hyper-V, Cortana, Miracast, Virtual Smart Cards, and Secure Boot; determine and create appropriate installation media.</p> <p>102 Install Windows</p> <p>Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios, migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.</p>
7.3	Windows Activation	
7.4	Windows Post-Installation Configuration	<p>104 Perform post-installation configuration</p> <p>Configure and customize start menu, desktop, taskbar, and notification settings, according to device type; configure accessibility options; configure Cortana; configure Microsoft Edge; configure Internet Explorer; configure Hyper-V; configure power settings.</p>
7.5	Web Browser Configuration	<p>104 Perform post-installation configuration</p> <p>Configure and customize start menu, desktop, taskbar, and notification settings, according to device type; configure accessibility options; configure Cortana; configure Microsoft Edge; configure Internet Explorer; configure Hyper-V; configure power settings.</p>
7.6	Portable Windows Installations	<p>102 Install Windows</p> <p>Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios,</p>

		migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.
7.7	Windows Upgrade	102 Install Windows Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios, migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.
7.8	User Profile and Data Migration	
7.9	VHD Installation	102 Install Windows Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios, migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.
7.10	Client-Side Virtualization	102 Install Windows Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios, migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.
8.0	System Imaging	
8.1	System Images	103 Configure devices and device drivers

		Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.
8.2	Image Deployment	
8.3	Image Servicing	
8.4	Provisioning Packages	
9.0	Mobile Computing	
9.1	Mobile Device Management	
9.2	Virtual Private Network (VPN)	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
9.3	DirectAccess	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>

9.4	BitLocker	
9.5	BitLocker To Go	
9.6	Mobile Device Security	
9.7	Power Management	<p>104 Perform post-installation configuration</p> <p>Configure and customize start menu, desktop, taskbar, and notification settings, according to device type; configure accessibility options; configure Cortana; configure Microsoft Edge; configure Internet Explorer; configure Hyper-V; configure power settings.</p>
9.8	Mobility Options	
9.9	Mobile Networking	<p>201 Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues; configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.</p>
9.10	Mobile Apps	
9.11	User Experience Virtualizaion	
10.0	System Monitoring and Maintenance	
10.1	System Tools	<p>302 Monitor Windows</p> <p>Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using</p>

		Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.
10.2	System Events	302 Monitor Windows Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.
10.3	Performance Management	302 Monitor Windows Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.
10.4	Resource Monitoring	302 Monitor Windows Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.

10.5	Reliability and Performance Maintenance	<p>302 Monitor Windows</p> <p>Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.</p>
10.6	Optimization	<p>302 Monitor Windows</p> <p>Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.</p>
10.7	Remote Management	<p>205 Configure remote management</p> <p>Choose the appropriate remote management tools; configure remote management settings; modify settings remotely by using the Microsoft Management Console (MMC) or Windows PowerShell; configure Remote Assistance, including Easy Connect; configure Remote Desktop; configure remote PowerShell.</p> <p>305 Configure advanced management tools</p> <p>Configure services, configure Device Manager, configure and use the MMC, configure Task Scheduler, configure automation of management tasks using Windows PowerShell.</p>
10.8	Remote Desktop and Remote Assistance	<p>205 Configure remote management</p>

		<p>Choose the appropriate remote management tools; configure remote management settings; modify settings remotely by using the Microsoft Management Console (MMC) or Windows PowerShell; configure Remote Assistance, including Easy Connect; configure Remote Desktop; configure remote PowerShell.</p> <p>305 Configure advanced management tools</p> <p>Configure services, configure Device Manager, configure and use the MMC, configure Task Scheduler, configure automation of management tasks using Windows PowerShell.</p>
11.0	System Protection	
11.1	System Updates	<p>301 Configure updates</p> <p>Configure Windows Update options; implement Insider Preview, Current Branch (CB), Current Branch for Business (CBB), and Long Term Servicing Branch (LTSB) scenarios; manage update history; roll back updates; update Windows Store apps.</p>
11.2	System Protection	<p>303 Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders, configure File History, recover files from OneDrive, use Windows Backup and Restore, perform a backup and restore with WBAAdmin, perform recovery operations using Windows Recovery.</p>
11.3	System Backup	<p>303 Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders,</p>

		<p>configure File History, recover files from OneDrive, use Windows Backup and Restore, perform a backup and restore with WBAAdmin, perform recovery operations using Windows Recovery.</p> <p>305 System Protection</p> <p>Configure services, configure Device Manager, configure and use the MMC, configure Task Scheduler, configure automation of management tasks using Windows PowerShell.</p>
11.4	System Restore	<p>303 Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders, configure File History, recover files from OneDrive, use Windows Backup and Restore, perform a backup and restore with WBAAdmin, perform recovery operations using Windows Recovery.</p>
11.5	File History	<p>303 Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders, configure File History, recover files from OneDrive, use Windows Backup and Restore, perform a backup and restore with WBAAdmin, perform recovery operations using Windows Recovery.</p>
11.6	Recovery Environment	<p>303 Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders, configure File History, recover files from OneDrive, use Windows</p>

		Backup and Restore, perform a backup and restore with WBAdmin, perform recovery operations using Windows Recovery.
11.7	Malware Protection	302 Monitor Windows Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.

Objective Mapping: MS 70-698 Objective to LabSim Section

Exam 70-698: Installing and Configuring Windows 10

This certification exam measures your ability to accomplish the technical tasks listed below. The percentages indicate the relative weight of each major topic on the exam. The questions on the exam include, but are not limited to, the objectives detailed below:

#	Objective	Module.Section
100	Implement Windows (30-35%)	
101	Prepare for installation requirements Determine hardware requirements and compatibility; choose between an upgrade and a clean installation; determine appropriate editions according to device type; determine requirements for particular features, such as Hyper-V, Cortana, Miracast, Virtual Smart Cards, and Secure Boot; determine and create appropriate installation media.	7.1, 11.7

102	<p>Install Windows</p> <p>Perform clean installations, upgrade using Windows Update, upgrade using installation media, configure native boot scenarios, migrate from previous versions of Windows, install to virtual hard disk (VHD), boot from VHD, install on bootable USB, install additional Windows features, configure Windows for additional regional and language support.</p>	7.2, 7.6 7.7, 7.9
103	<p>Configure devices and device drivers</p> <p>Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.</p>	2.1, 2.2, 2.3 8.1
104	<p>Perform post-installation configuration</p> <p>Configure and customize Start menu, desktop, taskbar, and notification settings, according to device type; configure accessibility options; configure Cortana; configure Microsoft Edge; configure Internet Explorer; configure Hyper-V; configure power settings.</p>	1.2, 7.4, 7.5 9.7
105	<p>Implement Windows in an enterprise environment</p> <p>Provision with the Windows Imaging and Configuration Designer (ICD) tool; implement Active Directory–based activation; implement volume activation using a Key Management Service (KMS); query and configure activation states using the command line; configure Active Directory, including Group Policies; configure and optimize user account control (UAC).</p>	1.4, 8.2
200	Configure and support core services (30-35%)	
201	<p>Configure networking</p> <p>Configure and support IPv4 and IPv6 network settings; configure name resolution; connect to a network; configure network locations; configure Windows Firewall; configure Windows Firewall with Advanced Security; configure network discovery; configure Wi-Fi settings; configure Wi-Fi Direct; troubleshoot network issues;</p>	3.3, 3.4, 3.5, 3.6 9.2, 9.3, 9.9

	configure VPN, such as app-triggered VPN, traffic filters, and lockdown VPN; configure IPsec; configure Direct Access.	
202	<p>Configure storage</p> <p>Configure disks, volumes, and file system options using Disk Management and Windows PowerShell; create and configure VHDs; configure removable devices; create and configure storage spaces; troubleshoot storage and removable devices issues.</p>	2.5, 2.7, 2.8
203	<p>Configure data access and usage</p> <p>Configure file and printer sharing and HomeGroup connections; configure folder shares, public folders, and OneDrive; configure file system permissions; configure OneDrive usage; troubleshoot data access and usage.</p>	2.9, 2.11 6.1, 6.2, 6.3, 6.5
204	<p>Implement apps</p> <p>Configure desktop apps, configure startup options, configure Windows features, configure Windows Store, implement Windows Store apps, implement Windows Store for Business, provision packages, create packages, use deployment tools, use the Windows Assessment and Deployment Kit (ADK).</p>	4.1, 4.5
205	<p>Configure remote management</p> <p>Choose the appropriate remote management tools; configure remote management settings; modify settings remotely by using the Microsoft Management Console (MMC) or Windows PowerShell; configure Remote Assistance, including Easy Connect; configure Remote Desktop; configure remote PowerShell.</p>	10.7, 10.8
300	Manage and maintain Windows (30-35%)	
301	Configure updates	11.1

	Configure Windows Update options; implement Insider Preview, Current Branch (CB), Current Branch for Business (CBB), and Long Term Servicing Branch (LTSB) scenarios; manage update history; roll back updates; update Windows Store apps.	
302	<p>Monitor Windows</p> <p>Configure and analyze Event Viewer logs, configure event subscriptions, monitor performance using Task Manager, monitor performance using Resource Monitor, monitor performance using Performance Monitor and Data Collector Sets, monitor system resources, monitor and manage printers, configure indexing options, manage client security by using Windows Defender, evaluate system stability using Reliability Monitor, troubleshoot performance issues.</p>	10.1, 10.2, 10.3 10.4, 10.5, 10.6 11.7
303	<p>Configure system and data recovery</p> <p>Configure a recovery drive, configure a system restore, perform a refresh or recycle, perform a driver rollback, configure restore points, resolve hardware and device issues, interpret data from Device Manager, restore previous versions of files and folders, configure File History, recover files from OneDrive, use Windows Backup and Restore, perform a backup and restore with WBAAdmin, perform recovery operations using Windows Recovery.</p>	11.2, 11.3, 11.4 11.5, 11.6
304	<p>Configure authorization and authentication</p> <p>Configure Microsoft Passport, configure picture passwords and biometrics, configure workgroups, configure domain settings, configure HomeGroup settings, configure Credential Manager, configure local accounts, configure Microsoft accounts, configure Device Registration, configure Windows Hello, configure Device Guard, configure Credential Guard, configure Device Health Attestation, configure UAC behavior.</p>	1.3, 4.2 5.1, 5.2 5.3, 5.4, 5.5 6.3
305	<p>Configure advanced management tools</p> <p>Configure services, configure Device Manager, configure and use the MMC, configure Task Scheduler, configure automation of management tasks using Windows PowerShell.</p>	2.1, 2.2, 2.9 3.7, 3.8 10.7, 10.8 11.3

Objective Mapping: LabSim Section to MS 70-697 Objective

The TestOut Client Pro 2016 course cover the following Linux Pro exam objectives:

Section	Title	Objectives for MS 70-697 Exam
1.0	Course Introduction	
1.1	Course Introduction	
1.2	Windows User Interface Overview	
1.3	Windows as a Client	
1.4	Active Directory	
2.0	Hardware Management	
2.1	Devices and Drivers	
2.2	Device Driver Troubleshooting	
2.3	Display Management	

2.4	Disk File Systems	<p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>
2.5	Partition and Volume Management	
2.6	Volume Resizing	<p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>
2.7	RAID	<p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>
2.8	Storage Spaces	<p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>
2.9	Disk Optimization	<p>501 Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p> <p>602 Configure file and folder access</p>

		Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.
2.10	Removable Storage	502 Support data security Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).
2.11	OneDrive Storage	
2.12	Storage Troubleshooting	501 Support data storage Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.
3.0	Network Configuration	
3.1	IPv4	401 Configure IP settings Configure name resolution, connect to a network, configure network locations. 402 Configure networking settings Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.
3.2	IPv6	401 Configure IP settings

		<p>Configure name resolution, connect to a network, configure network locations.</p> <p>402 Configure networking settings</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p>
3.3	IP Configuration	<p>401 Configure IP settings</p> <p>Configure name resolution, connect to a network, configure network locations.</p> <p>402 Configure networking settings</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p>
3.4	IP Troubleshooting	<p>401 Configure IP settings.</p> <p>Configure name resolution, connect to a network, configure network locations.</p> <p>402 Configure networking settings.</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p>
3.5	Wireless Networking Overview	<p>402 Configure networking settings</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p>
3.6	Wireless Networking Configuration	<p>402 Configure networking settings</p>

		Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.
3.7	Windows Firewall	403 Configure and maintain network security Configure Windows Firewall, configure Windows Firewall with Advanced Security, configure connection security rules (IPsec), configure authenticated exceptions, configure network discovery.
3.8	Windows Firewall with Advanced Security (WFAS)	403 Configure and maintain network security Configure Windows Firewall, configure Windows Firewall with Advanced Security, configure connection security rules (IPsec), configure authenticated exceptions, configure network discovery.
4.0	Application Management	
4.1	Desktop Applications	
4.2	User Account Control (UAC)	102 Support authentication and authorization Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, Homegroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.
4.3	Application Compatibility	802 Support desktop apps The following support considerations including: Desktop app compatibility using Application Compatibility Toolkit (ACT) including shims and compatibility database; desktop application co-existence using Hyper-V,

		Azure RemoteApp, and App-V; installation and configuration of User Experience Virtualization (UE-V); deploy desktop apps by using Microsoft InTune.
4.4	Application Virtualization	<p>802 Support desktop apps</p> <p>The following support considerations including: Desktop app compatibility using Application Compatibility Toolkit (ACT) including shims and compatibility database; desktop application co-existence using Hyper-V, Azure RemoteApp, and App-V; installation and configuration of User Experience Virtualization (UE-V); deploy desktop apps by using Microsoft InTune.</p>
4.5	Windows Store Apps	<p>903 Configure and manage updates</p> <p>Configure update settings, configure Windows Update policies, manage update history, roll back updates, update Windows Store apps.</p>
4.6	Sideloaded Apps	<p>101 Support Windows Store and cloud apps</p> <p>Install and manage software by using Microsoft Office 365 and Windows Store apps, sideload apps by using Microsoft InTune, sideload apps into online and offline images, deep link apps by using Microsoft InTune, integrate Microsoft account including personalization settings.</p>
4.7	Cloud-based Applications	<p>101 Support Windows Store and cloud apps</p> <p>Install and manage software by using Microsoft Office 365 and Windows Store apps, sideload apps by using Microsoft InTune, sideload apps into online and offline images, deep link apps by using Microsoft InTune, integrate Microsoft account including personalization settings.</p> <p>801 Deploy and manage Azure RemoteApp</p> <p>Configure RemoteApp and Desktop Connections settings, configure Group Policy Objects (GPOs) for signed packages, subscribe to the Azure RemoteApp and Desktop Connections feeds, export and import Azure RemoteApp configurations, support iOS and Android, configure remote desktop web access for Azure RemoteApp distribution.</p>

5.0	System Access	
5.1	Authentication and Authorization	<p>102 Support authentication and authorization</p> <p>Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.</p>
5.2	Authentication Management	<p>102 Support authentication and authorization</p> <p>Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.</p>
5.3	User Rights and Account Policies	<p>102 Support authentication and authorization</p> <p>Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.</p>
5.4	Credential Management	<p>102 Support authentication and authorization</p> <p>Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.</p>

5.5	Alternative Authentication Options	<p>102 Support authentication and authorization</p> <p>Identifying and resolving issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.</p>
5.6	NTFS Permissions	<p>502 Support data security</p> <p>Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.</p> <p>602 Configure file and folder access</p> <p>Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.</p>
5.7	Auditing	<p>602 Configure file and folder access</p> <p>Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.</p>
5.8	Dynamic Access Control (DAC)	<p>502 Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p>
5.9	Encryption	<p>502 Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p>

		<p>602 Configure file and folder access</p> <p>Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.</p>
6.0	Resource Sharing	
6.1	Resource Sharing	<p>601 Configure shared resources</p> <p>Configure shared folder permissions, configure HomeGroup settings, configure libraries, configure shared printers, configure OneDrive.</p>
6.2	Shared Resource Troubleshooting	<p>502 Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p> <p>601 Configure shared resources</p> <p>Configure shared folder permissions, configure HomeGroup settings, configure libraries, configure shared printers, configure OneDrive.</p>
6.3	Libraries and HomeGroups	<p>601 Configure shared resources</p> <p>Configure shared folder permissions, configure HomeGroup settings, configure libraries, configure shared printers, configure OneDrive.</p>
6.4	Distributed File System (DFS)	<p>501 Support data storage</p>

		Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.
6.5	Printer Management and Sharing	<p>402 Configure networking settings</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p> <p>601 Configure shared resources</p> <p>Configure shared folder permissions, configure HomeGroup settings, configure libraries, configure shared printers, configure OneDrive.</p>
7.0	Windows Installation	
7.1	Windows Versions	
7.2	Windows Installation	
7.3	Windows Activation	
7.4	Windows Post-Installation Configuration	
7.5	Web Browser Configuration	

7.6	Portable Windows Installations	
7.7	Windows Upgrade	
7.8	User Profile and Data Migration	201 Migrate and configure user data Migrate user profiles; configure folder location; configure profiles including profile version, local, roaming, and mandatory.
7.9	VHD Installation	
7.10	Client-Side Virtualization	202 Configure Hyper-V Create and configure virtual machines including integration services, create and manage checkpoints, create and configure virtual switches, create and configure virtual disks, move a virtual machine's storage.
8.0	System Imaging	
8.1	System Images	
8.2	Image Deployment	103 Configure devices and device drivers Install, update, disable, and roll back drivers; resolve driver issues; configure driver settings, including signed and unsigned drivers; manage driver packages; download and import driver packages; use the Deployment Image Servicing and Management (DISM) tool to add packages.
8.3	Image Servicing	903 Configure and manage updates Configure update settings, configure Windows Update policies, manage update history, roll back updates, update Windows Store apps.

8.4	Provisioning Packages	
9.0	Mobile Computing	
9.1	Mobile Device Management	<p>302 Deploy software updates by using Microsoft InTune</p> <p>Use reports and In-Console Monitoring to identify required updates, approve or decline updates, configure automatic approval settings, configure deadlines for update installations, deploy third-party updates.</p> <p>303 Manage devices with Microsoft InTune</p> <p>Provision user accounts, enroll devices, view and manage all managed devices, configure the Microsoft InTune subscriptions, configure the Microsoft InTune connector site system role, manage user and computer groups, configure monitoring and alerts, manage policies, manage remote computers.</p>
9.2	Virtual Private Network (VPN)	<p>701 Configure remote connections</p> <p>Configure remote authentication, configure Remote Desktop settings, configure VPN connections and authentication, enable VPN reconnect, configure broadband tethering.</p>
9.3	DirectAccess	
9.4	BitLocker	<p>204 Configure security for mobile devices</p> <p>Configure BitLocker, configure startup key storage.</p> <p>502 Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p>

9.5	BitLocker To Go	<p>502 Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS) including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p>
9.6	Mobile Device Security	<p>204 Configure security for mobile devices</p> <p>Configure BitLocker, configure startup key storage.</p> <p>301 Support mobile devices</p> <p>Support mobile device policies including security policies, remote access, and remote wipe; support mobile access and data synchronization including Work Folders and Sync Center; support broadband connectivity including broadband tethering and metered networks; support Mobile Device Management by using Microsoft Intune, including Windows Phone, iOS, and Android.</p>
9.7	Power Management	<p>203 Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi direct, files, powercfg, Sync Center.</p> <p>702 Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi Direct.</p>
9.8	Mobility Options	<p>203 Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi Direct, files, powercfg, Sync Center.</p> <p>702 Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi Direct.</p>

9.9	Mobile Networking	<p>203 Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi Direct, files, powercfg, Sync Center.</p> <p>301 Support mobile devices</p> <p>Support mobile device policies including security policies, remote access, and remote wipe; support mobile access and data synchronization including Work Folders and Sync Center; support broadband connectivity including broadband tethering and metered networks; support Mobile Device Management by using Microsoft Intune, including Windows Phone, iOS, and Android.</p>
9.10	Mobile Apps	<p>101 Support Windows Store and cloud apps</p> <p>Install and manage software by using Microsoft Office 365 and Windows Store apps, sideload apps by using Microsoft Intune, sideload apps into online and offline images, deep link apps by using Microsoft Intune, integrate Microsoft account including personalization settings.</p> <p>802 Support desktop apps</p> <p>The following support considerations, including: Desktop app compatibility using Application Compatibility Toolkit (ACT) including shims and compatibility database; desktop application co-existence using Hyper-V, Azure RemoteApp, and App-V; installation and configuration of User Experience Virtualization (UE-V); deploy desktop apps by using Microsoft Intune.</p>
9.11	User Experience Virtualizaion	<p>802 Support desktop apps</p> <p>The following support considerations including: Desktop app compatibility using Application Compatibility Toolkit (ACT) including shims and compatibility database; desktop application co-existence using Hyper-V, Azure RemoteApp, and App-V; installation and configuration of User Experience Virtualization (UE-V); deploy desktop apps by using Microsoft Intune.</p>
10.0	System Monitoring and Maintenance	

10.1	System Tools	
10.2	System Events	
10.3	Performance Management	
10.4	Resource Monitoring	
10.5	Reliability and Performance Maintenance	
10.6	Optimization	
10.7	Remote Management	
10.8	Remote Desktop and Remote Assistance	
11.0	System Protection	
11.1	System Updates	903 Configure and manage updates Configure update settings, configure Windows Update policies, manage update history, roll back updates, update Windows Store apps.
11.2	System Protection	901 Configure system recovery

		<p>Configure a recovery drive, configure system restore, perform a refresh or recycle, perform a driver rollback, configure restore points.</p> <p>902 Configure file recovery</p> <p>Restore previous versions of files and folders, configure File History, recover files from OneDrive.</p>
11.3	System Backup	<p>901 Configure system recovery</p> <p>Configure a recovery drive, configure system restore, perform a refresh or recycle, perform a driver rollback, configure restore points.</p> <p>902 Configure file recovery</p> <p>Restore previous versions of files and folders, configure File History, recover files from OneDrive.</p>
11.4	System Restore	
11.5	File History	
11.6	Recovery Environment	
11.7	Malware Protection	

Objective Mapping: MS 70-697 Objective to LabSim Section

#	Objective	Module.Section
100	Manage Identity (10-15%)	
101	Support Windows Store and cloud apps Install and manage software by using Microsoft Office 365 and Windows Store apps, sideload apps by using Microsoft Intune, sideload apps into online and offline images, deep link apps by using Microsoft Intune, integrate Microsoft account including personalization settings.	4.1, 4.5, 4.6 4.7, 9.10
102	Support authentication and authorization Identify and resolve issues related to the following: Multi-factor authentication including certificates, Microsoft Passport, virtual smart cards, picture passwords, and biometrics; workgroup vs. domain, HomeGroup, computer and user authentication including secure channel, account policies, credential caching, and Credential Manager; local account vs. Microsoft account; Workplace Join; Configuring Windows Hello.	1.3, 4.2 5.1, 5.2, 5.3, 5.5
200	Plan desktop and device deployment (10-15%)	
201	Migrate and configure user data Migrate user profiles; configure folder location; configure profiles including profile version, local, roaming, and mandatory.	7.8
202	Configure Hyper-V Create and configure virtual machines, including integration services, create and manage checkpoints, create and configure virtual switches, create and configure virtual disks, move a virtual machine's storage.	7.10
203	Configure mobility options	9.7, 9.8, 9.9

	Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi direct, files, powercfg, and Sync Center.	
204	Configure security for mobile devices Configure BitLocker, configure startup key storage.	9.4, 9.6
300	Plan and implement a Microsoft Intune device management solution (10-15%)	
301	Support mobile devices Support mobile device policies including security policies, remote access, and remote wipe; support mobile access and data synchronization, including Work Folders and Sync Center; support broadband connectivity, including broadband tethering and metered networks; support Mobile Device Management by using Microsoft Intune, including Windows Phone, iOS, and Android.	9.6, 9.9
302	Deploy software updates by using Microsoft Intune Use reports and In-Console Monitoring to identify required updates, approve or decline updates, configure automatic approval settings, configure deadlines for update installations, deploy third-party updates.	9.1
303	Manage devices with Microsoft Intune Provision user accounts, enroll devices, view and manage all managed devices, configure the Microsoft Intune subscriptions, configure the Microsoft Intune connector site system role, manage user and computer groups, configure monitoring and alerts, manage policies, manage remote computers.	9.1
400	Configure Networking (10-15%)	

401	<p>Configure IP settings</p> <p>Configure name resolution, connect to a network, configure network locations.</p>	3.1, 3.2, 3.3 3.4
402	<p>Configure networking settings</p> <p>Connect to a wireless network, manage preferred wireless networks, configure network adapters, configure location-aware printing.</p>	3.3, 3.4, 3.5, 3.6 6.5
403	<p>Configure and maintain network security</p> <p>Configure Windows Firewall, configure Windows Firewall with Advanced Security, configure connection security rules (IPsec), configure authenticated exceptions, configure network discovery.</p>	3.7, 3.8
500	Configure Storage (10-15%)	
501	<p>Support data storage</p> <p>Identifying and resolving issues related to the following: DFS client including caching settings, storage spaces including capacity and fault tolerance, OneDrive.</p>	2.4, 2.7, 2.8 2.9, 2.11, 2.12
502	<p>Support data security</p> <p>Identifying and resolving issues related to the following: Permissions including share, NTFS, and Dynamic Access Control (DAC); Encrypting File System (EFS), including Data Recovery Agent; access to removable media; BitLocker and BitLocker To Go including Data Recovery Agent and Microsoft BitLocker Administration and Monitoring (MBAM).</p>	2.10, 5.8, 5.9 9.4, 9.5
600	Manage data access and protection (10-15%)	

601	<p>Configure shared resources</p> <p>Configure shared folder permissions, configure HomeGroup settings, configure libraries, configure shared printers, configure OneDrive.</p>	6.1, 6.3, 6.5
602	<p>Configure file and folder access</p> <p>Encrypt files and folders by using EFS, configure NTFS permissions, configure disk quotas, configure file access auditing Configure authentication and authorization.</p>	2.9 5.6, 5.7, 5.9
700	Manage remote access (10-15%)	
701	<p>Configure remote connections</p> <p>Configure remote authentication, configure Remote Desktop settings, configure VPN connections and authentication, enable VPN reconnect, configure broadband tethering.</p>	5.7, 9.2, 10.8
702	<p>Configure mobility options</p> <p>Configure offline file policies, configure power policies, configure Windows To Go, configure sync options, configure Wi-Fi Direct.</p>	9.7, 9.8
800	Manage apps (10-15%)	
801	<p>Deploy and manage Azure RemoteApp</p> <p>Configure RemoteApp and Desktop Connections settings, configure Group Policy Objects (GPOs) for signed packages, subscribe to the Azure RemoteApp and Desktop Connections feeds, export and import Azure RemoteApp configurations, support iOS and Android, configure remote desktop web access for Azure RemoteApp distribution.</p>	4.7, 10.8

802	<p>Support desktop apps</p> <p>The following support considerations, including: Desktop app compatibility using Application Compatibility Toolkit (ACT), including shims and compatibility database; desktop application co-existence using Hyper-V, Azure RemoteApp, and App-V; installation and configuration of User Experience Virtualization (UE-V); deploy desktop apps by using Microsoft Intune.</p>	4.1, 4.3, 4.4 9.10, 9.11
900	Manage updates and recovery (10-15%)	
901	<p>Configure system recovery</p> <p>Configure a recovery drive, configure system restore, perform a refresh or recycle, perform a driver rollback, configure restore points.</p>	11.2, 11.3
902	<p>Configure file recovery</p> <p>Restore previous versions of files and folders, configure File History, recover files from OneDrive.</p>	11.2, 11.3
903	<p>Configure and manage updates</p> <p>Configure update settings, configure Windows Update policies, manage update history, roll back updates, update Windows Store apps.</p>	8.3, 11.1

Objective Mapping: MS 70-680 Objective to LabSim Section

#	Objective	Module.Section
100	Installing, Upgrading, and Migrating to Windows 7 (14%)	
101	<p>Perform a clean installation. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Identifying hardware requirements Setting up as the sole operating system Setting up as dual boot; installation methods Boot from the source of installation, preparing the installation source: USB, CD, network share, WDS 	7.1, 7.2 8.1
102	<p>Upgrade to Windows 7 from previous versions of Windows. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Upgrading from Windows Vista Migrating from Windows XP Upgrading from one edition of Windows 7 to another edition of Windows 7 	D.1
103	<p>Migrate user profiles. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Migrating from one machine to another Migrating from previous versions of Windows Side-by-side vs. wipe and load 	7.8 D.2
200	Deploying Windows 7 (13%)	
201	<p>Capture a system image. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Preparing system for capture Creating a WIM file 	8.1

	<p>Automated capture Manual capture</p>	
202	<p>Prepare a system image for deployment. This objective may include but is not limited to:</p> <p>Inserting an application into a system image Inserting a driver into a system image Inserting an update into a system image Configuring tasks to run after deployment</p>	<p>8.3 D.5</p>
203	<p>Deploy a system image. This objective may include but is not limited to:</p> <p>Automated deployment methods Manually deploying a customized image</p>	<p>8.2 D.5</p>
204	<p>Configure a VHD. This objective may include but is not limited to:</p> <p>Creating, deploying, booting, mounting, and updating VHDs Offline updates Offline servicing</p>	<p>7.9</p>
300	Configuring Hardware and Applications (14%)	
301	<p>Configure devices. This objective may include but is not limited to:</p> <p>Updating, disabling, and uninstalling drivers Signed drivers Conflicts between drivers Configuring driver settings</p>	<p>2.1</p>

	Resolving problem device driver	
302	<p>Configure application compatibility. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Setting compatibility mode Implementing shims Compatibility issues with Internet Explorer 	4.3
303	<p>Configure application restrictions. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Setting software restriction policies Setting application control policies Setting through group policy or local security policy 	D.9
304	<p>Configure Internet Explorer. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring compatibility view Configuring security settings Configuring providers Managing add-ons Controlling InPrivate mode Certificates for secure Web sites 	D.11 D.12
400	Configuring Network Connectivity (14%)	
401	<p>Configure IPv4 network settings. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Connecting to a network Configuring name resolution Setting up a connection for a network 	3.1 3.3 3.4

	<p>Network locations Resolving connectivity issues APIPA</p>	
402	<p>Configure IPv6 network settings. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring name resolution Connecting to a network Setting up a connection for a network Network locations Resolving connectivity issues Link local multicast name resolution 	<p>3.2 3.3 3.4</p>
403	<p>Configure networking settings. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Adding a physically connected (wired) or wireless device Connecting to a wireless network Configuring security settings on the client Set preferred wireless networks Configuring network adapters Configuring location-aware printing 	<p>3.5 3.6 6.5 D.3</p>
404	<p>Configure Windows Firewall. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring rules for multiple profiles Allowing or denying an application Network-profile-specific rules Configuring notifications Configuring authenticated exceptions 	<p>3.7 3.8</p>

405	<p>Configure remote management. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Remote management methods Configuring remote management tools Executing PowerShell commands 	<p>10.7 10.8</p>
500	Configuring Access to Resources (13%)	
501	<p>Configure shared resources. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Folder virtualization Shared folder permissions Printers and queues Configuring HomeGroup settings 	<p>5.5 5.6 5.7</p>
502	<p>Configure file and folder access. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Encrypting files and folders by using EFS Configuring NTFS permissions Resolving effective permissions issues Copying files vs. moving files 	<p>5.6 5.9</p>
503	<p>Configure user account control (UAC). This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring local security policy Configuring admin vs. standard UAC prompt behaviors Configuring Secure Desktop 	<p>4.2</p>

504	<p>Configure authentication and authorization. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Resolving authentication issues Configuring rights Managing credentials Managing certificates Smart cards with PIV Elevating user privileges Multifactor authentication 	<p>5.1 5.2 5.3 5.4</p>
505	<p>Configure BranchCache. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Distributed cache mode vs. hosted mode Network infrastructure requirements Configuring settings Certificate management 	D.4
600	Configuring Mobile Computing (10%)	
601	<p>Configure BitLocker and BitLocker To Go. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring BitLocker and BitLocker To Go policies Managing Trusted Platform Module (TPM) PINs Configuring startup key storage Data recovery agent support 	<p>9.4 9.5</p>
602	<p>Configure DirectAccess. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring client side Configuring authentication 	D.7

	Network infrastructure requirements	
603	<p>Configure mobility options. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring offline file policies Transparent caching Creating and migrating power policy 	<p>9.7 9.8</p>
604	<p>Configure remote connections. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Establishing VPN connections and authentication Enabling a VPN reconnect Advanced security auditing NAP quarantine remediation Dial-up connections Remote desktop Published apps 	<p>5.7 9.2 10.7 10.8 D.6</p>
700	Monitoring and Maintaining Systems that Run Windows 7 (11%)	
701	<p>Configure updates to Windows 7. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring update settings Determining source of updates Configuring Windows Update policies Reviewing update history Checking for new updates Rolling back updates 	<p>11.1 D.9</p>

702	<p>Manage disks. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Managing disk volumes Managing file system fragmentation RAID Removable device policies 	<p>2.5 2.6 2.9 2.10</p>
703	<p>Monitor systems. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring event logging Filtering event logs Event subscriptions Data collector sets Generating a system diagnostics report 	<p>10.1 10.2 10.4 10.5 D.8</p>
704	<p>Configure performance settings. This objective may include but is not limited to:</p> <ul style="list-style-type: none"> Configuring page files Configuring hard drive cache Updated drivers Configuring networking performance Configuring power plans Configuring processor scheduling Configuring desktop environment Configuring services and programs to resolve performance issues Mobile computing performance issues Configuring power 	<p>2.1 2.2 2.3 9.7 10.1 10.6 D.8</p>
800	800 Configuring Backup and Recovery Options (11%)	
801	<p>Configure backup. This objective may include but is not limited to:</p>	<p>11.3</p>

	<p>Creating a system recovery disk Backing up files, folders, or full system Scheduling backups</p>	
802	<p>Configure system recovery options. This objective may include but is not limited to:</p> <p>Configuring system restore points Restoring system settings Last known good configuration Complete restore; driver rollback</p>	11.6
803	<p>Configure file recovery options. This objective may include but is not limited to:</p> <p>Configuring file restore points Restoring previous versions of files and folders Restoring damaged or deleted files by using shadow copies Restore user profiles</p>	11.4