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MICROSOFT

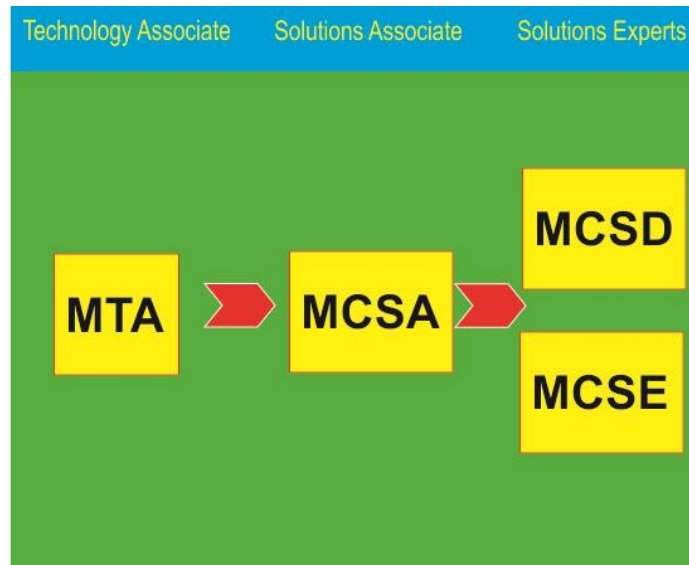
CERTIFICATIONS

- MS EXCHANGE SERVER 2013
- MS EXCHANGE SERVER 2016
- WINDOWS SERVER 2012
- WINDOWS SERVER 2016
 - WINDOWS 8
 - WINDOWS 10



MTA | MCSA | MCSE

PROGRAMME GUIDE



OVERVIEW

Microsoft certifications validate the skills to implement business solutions using Microsoft technologies. Microsoft provides the core business and productivity software that organizations depend on. Regardless of your industry or career path, having a clear understanding of Microsoft technologies (and the certifications to back it up) will help accelerate your IT career. Microsoft is continually updating its certification program to align with the latest technologies and job roles. As of 2017, the Microsoft Certified Professional (MCP) program has three key skill levels: Technology Associate (MTA), Solutions Associate (MCSA), and Solutions Expert (MCSE/MCSD).

Microsoft's latest certification program also features recertification. Dependent on the certification(s) held, recertification requires MCPs to take an additional exam(s) every few years to ensure their skill set aligns with the latest job roles and Microsoft technologies. Recertification increases the value of Microsoft credentials by proving that an MCP's skills are always up-to-date.

3 LEVELS OF MICROSOFT CERTIFICATIONS

TECHNOLOGY ASSOCIATE

Microsoft Technology Associate (MTA) certifications demonstrate fundamental knowledge in a key technical discipline, such as software development, databases, networking and security. These certificates are designed for students and individuals not yet working in the IT industry, but who plan on beginning a career in one of these vital tech domains. MTA certifications demand no prerequisites, and are not required to reach the next levels of Microsoft certification.

SOLUTIONS ASSOCIATE

Microsoft Certified Solutions Associate (MCSA)

certifications are designed for working IT professionals and job-seekers in the early stages of their career. MCSA certifications demonstrate the ability to build on-site and cloud-based solutions in one of Microsoft's core technology platforms, e.g., Windows Server, Windows Client, SQL Server, Azure or Office. Solutions Associate certificates are a prerequisite to reach Microsoft's expert-level credentials.

SOLUTIONS EXPERT

Microsoft's expert class of credentials includes Microsoft Certified Solutions Expert (MCSE) certifications for IT professionals, and Microsoft Certified Solutions Developer (MCSD) certifications for software developers. Where the MCSA certificate measures skills in a single core technology, Microsoft's expert-level certifications validate an individual's wide-ranging technical skills and ability to build on-premise and cloud-optimized solutions incorporating multiple Microsoft platforms.

BENEFITS OF MICROSOFT CERTIFICATIONS FOR INDIVIDUALS

- Microsoft Certified Professionals gain market-relevant skills that employers recognize and respect.
- Earning the latest Microsoft certifications proves you are up-to-date with new Microsoft releases.
- Passing Microsoft certification exams demonstrates advanced technical problem-solving skills.
- Microsoft certifications help distinguish you from competing job candidates for IT positions.
- Committing the time and resources to earn Microsoft certifications proves career dedication.
- MCPs gain access to a huge global community of certified professionals, featuring exclusive networking opportunities, conferences, parties, training sessions and special events.
- Microsoft Certified Professionals have access to exclusive online career-building resources including:
 - o Microsoft Transcript Tool - Share password-protected

transcripts with hiring managers and employers.

- o Microsoft Certificate Manager - Create, download and print customized certificates of IT achievement.
- o Logo Builder - Design custom logos to enhance your brand and highlight your Microsoft certifications.

BENEFITS OF MICROSOFT CERTIFICATIONS FOR BUSINESSES

- MCPs have the skills and expertise to maximize the ROI of Microsoft software and hardware.
- Microsoft Certified Professionals are proven to be more efficient and productive in the workplace.
- Businesses employing MCPs can leverage the power of the Microsoft brand to attract and win new business.
- Companies employing Microsoft Certified Professionals experience less downtime and lower employee turnover.

MICROSOFT MCSA: WINDOWS 8 CERTIFICATION

Working with Windows Desktops and Devices? Earn the Microsoft Certified Solutions Associate (MCSA): Windows 8 certification.

Required Exams (2):

- Microsoft Course 20687 (Exam 70-687).

Exam 70-687 - This course provides students hands-on experience with Windows 8. It provides guidance on installing, upgrading, and licensing for Windows 8. Students will learn how to manage storage by creating simple, spanned, and striped volumes, and how to optimize file-system performance. Additionally, they will learn how to manage available disk space by using quotas. Students will work with Windows tools and services to determine the source of performance and reliability issues, and to troubleshoot these issues.

This course describes how to configure networking to include IPv4, IPv6, connect to wireless networks, and use the networking features included in Windows 8 to troubleshoot networking issues. Students will also learn preventive measures and tools that work together to protect their computers from security threats.

The course then covers the features related to file and folder management, which include setting permissions, file/folder compression, and configuring shared folders. Students will also learn about installing and managing printers. Additionally the course provides an overview of the SkyDrive functionality, and describes the procedures to install and configure applications, including Windows Store apps.

The course also examines the fundamentals of working with virtual machines in the Client Hyper-V environment in Windows 8. Students will learn about features such as

Virtual Private Networks (VPNs) and DirectAccess, which provide mobile users access to internal resources when the users are out of the office.

Throughout the course, students will use Windows PowerShell 3.0, and its graphical user interface (GUI) to configure and manage the system. Students will also use the scripting editor to create and examine PowerShell scripts used to manage the system.

Prerequisites

None

Course Content

At the completion of this course, students will be able to:

- Plan and perform the installation of Windows 8.
- Install Windows 8 on computers that are running an existing operating system.
- Configure disks, partitions, volumes, and device drivers in a Windows 8 system.
- Configure network connectivity.
- Install, configure, and maintain wireless network connections.
- Implement Windows 8 technologies to secure network connections.
- Share files and printers.
- Implement tools and technologies that can help secure Windows 8 desktops.
- Configure and control applications in Windows 8.
- Optimize and maintain Windows 8 based computers.
- Configure mobile computer settings and to enable remote access.
- Create and configure virtual machines in Hyper-V for Windows 8 and describe how to use it to support legacy applications.
- Determine how to recover Windows 8 from various failures.
- Describe how to use Windows PowerShell to manage Windows 8.

Microsoft Course 20687 Course Outline

Module 1: Installing Windows 8.

Module 2: Upgrading and Migrating to Windows 8.

Module 3: Managing Disks and Device Drivers.

Module 4: Configuring and Troubleshooting Network Connections.

Module 5: Implementing Wireless Network Connections.

Module 6: Implementing Network Security.

Module 7: Configuring File Access and Printers on Windows 8 Clients.

Module 8: Securing Windows 8 Desktops.

Module 9: Configuring Applications.

Module 10: Optimizing and Maintaining Windows 8 Client Computers.

Module 11: Configuring Mobile Computing and Remote Access.

Module 12: Implementing Hyper-V.
Module 13: Troubleshooting and Recovering Windows 8.
Module 14: Using Windows PowerShell.

- Microsoft Course 20688 (Exam 70-688).

Exam 70-688 - In this course, students learn how to plan and implement the installation, management, and maintenance of Windows 8. Course participants develop their knowledge and skills in Windows 8 installation methods, local and remote management using bundled tools, policy and Windows PowerShell, networking, user authentication and access control, endpoint protection, encryption, profiles and settings, file and print resources, Windows Store apps and desktop apps, and mobile device management with Windows Intune.

Prerequisites

Before attending this course, students should have experience:

- Installing Windows operating systems and updates.
- Configuring client network connectivity.
- Installing Windows applications.
- An understanding of how Windows computers integrate with server computers in a domain environment.

Course Content

At the completion of this course, students will be able to:

- Plan and implement an IPv4 network.
- Implement Dynamic Host Configuration Protocol (DHCP).
- Implement IPv6.
- Implement Domain Name System (DNS).
- Implement and manage IP address management (IPAM).
- Plan for remote access.
- Implement DirectAccess.
- Implement virtual private networks (VPNs).
- Implement networking for branch offices.
- Configure advanced networking features.
- Implement software defined networking.

Microsoft Course 20688 Course Outline

Module 1: Planning and Implementing Management of Windows 8.

Module 2: Designing and Implementing an Installation Strategy.

Module 3: Planning and Implementing Authentication for Windows 8.

Module 4: Planning and Implementing IP Addressing and Intranet Connectivity.

Module 5: Implementing an Application Strategy for Windows 8.

Module 6: Planning and Implementing a Solution for User Settings.

Module 7: Planning for and Configuring Cloud Services.

Module 8: Planning and Implementing Windows Intune.

Module 9: Managing Computers by Using Windows Intune.

Module 10: Planning and Implementing Access to File and Print Services.

Module 11: Planning and Implementing Encryption for Windows 8.

Module 12: Planning and Implementing Endpoint Security.

Module 13: Planning and Implementing Extranet Connectivity.

Module 14: Planning and Implementing a Recovery Solution.

Course Name:	Microsoft Windows 8
Batch Course Length:	10 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	2
Hours per day:	6hrs
Certifications:	MCSA: Windows 8
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

MICROSOFT MCSA: WINDOWS 10 CERTIFICATION

Microsoft MCSA: Windows 10 Certification

Prove you have the expertise to configure, manage, and maintain a Windows 10 enterprise system.

Microsoft Course 20698: This course provides IT professionals with the knowledge and skills required to install and configure Windows 10 desktops in a Windows Server small to medium-sized AD DS domain environment. *The content from Microsoft Course 20687-1 will be covered in this course.*

Microsoft Course 20697-2: This course provides administrators with the knowledge and skills needed to deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment. Students learn how to plan and implement Windows 10 deployments in large organizations.

Required Exams (2):

- Microsoft Course 20698.

This instructor-led course provides IT professionals with the knowledge and skills required to install and configure Windows 10 desktops in a Windows Server small to medium-sized AD DS domain environment. These skills include learning how to install and customize Windows 10 operating systems and apps, configure local and remote network connectivity, and configure local and online storage. Students also will learn how to configure security in addition to how to maintain, update, and recover Windows 10.

This course is intended for IT professionals who administer and support Windows 10 desktops and devices in small to medium-sized networks. The networks with which these professionals typically work are configured as AD DS domain-based environments with managed access to the Internet and cloud services. Students who seek certification in Exam 70-698: Installing and Configuring Windows 10 also will benefit from this course. In addition, this course is intended to provide skills for Enterprise Desktop/Device Support Technicians (EDSTs) who work in small to medium-sized organizations, and who provide Tier 1 or Tier 2 support to users running Windows 10 desktops and devices within a Windows domain environment.

Prerequisites

Before attending this course, students must have:

- Experience deploying and configuring Windows 8, Windows 8.1, or Windows 10.
- Experience deploying and configuring Windows Server 2012 or Windows Server 2016 Active Directory Domain Services (AD DS).
- Experience deploying and configuring network services, including DNS, in Windows Server 2012 or Windows

Server 2016.

- Windows Client essentials, such as a working knowledge of Windows 8.1, Windows 8, or Windows 7.

Course Content

After completing this course, students will be able to:

- Plan, install, and upgrade to Windows 10.
- Perform post-installation configuration.
- Implement networking.
- Implement network security.
- Manage Windows 10 with Group Policy.
- Implement remote management.
- Manage local storage.
- Manage files and resources.
- Install and manage apps.
- Secure Windows 10.
- Implement remote connectivity.
- Maintain and update Windows 10.
- Recover and troubleshoot Windows 10.

Microsoft Course 20698 Course Outline

Module 1: Installing Windows 10.

Module 2: Performing post-installation configuration.

Module 3: Implementing networking.

Module 4: Implementing network security.

Module 5: Managing Windows 10 with Group Policy.

Module 6: Implementing remote management.

Module 7: Managing storage.

Module 8: Managing files and resources.

Module 9: Deploying and managing apps.

Module 10: Securing Windows 10.

Module 11: Implementing remote connectivity.

Module 12: Maintaining Windows 10.

Module 13: Recovering Windows 10.

- Microsoft Course 20697-2.

Exam 70-697: This course provides administrators with the knowledge and skills needed to deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment. Students 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 Device Registration. To support a variety of device and data management solutions, Microsoft Azure Active Directory, Microsoft Intune, 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.

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

Prerequisites

Before attending this course, students should have:

- Attended Microsoft Course 20697-1, OR Microsoft Course 20698, OR have equivalent knowledge.
- At least two years of experience in the IT field.
- Basic awareness of Windows deployment tools.

Course Content

After completing this course, students will be able to:

- Describe the challenges and solutions for desktop and device management in an enterprise environment.
- Deploy Windows 10 Enterprise desktops.
- Manage user profiles and user state virtualization.
- Manage Windows 10 sign-in and identity.
- Manage desktop and application settings by using Group Policy.
- Manage data access for Windows-based devices.
- Manage remote access solutions.
- Configure and manage client Hyper-V.
- Manage Windows 10 devices by using enterprise mobility solutions.
- Manage desktop and mobile clients by using Microsoft Intune.
- Manage updates and endpoint protection by using Microsoft Intune.
- Manage application and resource access by using Microsoft Intune.

Microsoft Course 20697-2 Course Outline

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

Module 2: Deploying Windows 10 Enterprise Desktops.

Module 3: Managing User Profiles and User State Virtualization.

Module 4: Managing Windows 10 Sign-In and Identity.

Module 5: Managing Desktop and Application Settings by Using Group Policy.

Module 6: Managing Data Access for Windows-based Devices.

Module 7: Managing Remote Access Solutions.

Module 8: Configuring and Managing Client Hyper-V.

Module 9: Managing Windows 10 Devices Using Enterprise Mobility Solutions.

Module 10: Managing Desktop and Mobile Clients Using Microsoft Intune.

Module 11: Managing Updates and Endpoint Protection Using Microsoft Intune.

Module 12: Application and Resource Access Using Microsoft Intune.

Course Name:	Microsoft Windows 8
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	2
Hours per day:	6hrs
Certifications:	MCSA: Windows 8
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

MICROSOFT MCSA: WINDOWS 2012 SERVER CERTIFICATION

Microsoft MCSA: Windows 2012 Server Certification Course

The Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 certification shows that you have the primary set of Windows Server skills that are relevant across multiple solution areas in a business environment.

Required Exams (3):

- Microsoft Course 20410 (Exam 70-410).

Exam: 70-410 - The course is part one, of a series of three courses, which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillset and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration.

Prerequisites

Before attending this course, students must have:

- A good understanding of networking fundamentals.
- An understanding and experience configuring security and administration tasks in an enterprise environment.
- Experience supporting or configuring Microsoft Windows clients.

Course Content

At the completion of this course, students will be able to:

- Install and configure Windows Server 2012.
- Describe Active Directory Domain Services and install a domain controller.
- Create and configure user, group, and computer objects.
- Use Windows PowerShell and other command-line tools to create and configure AD DS objects.
- Configure IPv4 for simple scenarios.
- Install and configure a DHCP server.
- Install and configure DNS service.
- Configure IPv6 for simple scenarios.
- Configure local storage on a server.
- Create and secure files shares and shared printers.
- Create and manage Group Policy objects.
- Secure Windows Servers by Using Group Policy Objects.
- Implement Server Virtualization with Hyper-V.

Microsoft Course 20410 Course Outline

Module 1: Deploying and Managing Windows Server 2012.

Module 2: Introduction to Active Directory Domain Services.

Module 3: Managing Active Directory Domain Services Objects.

Module 4: Automating Active Directory Domain Services Administration.

Module 5: Implementing IPv4.

Module 6: Implementing DHCP.

Module 7: Implementing DNS.

Module 8: Implementing IPv6.

Module 9: Implementing Local Storage.

Module 10: Implementing File and Print Services.

Module 11: Implementing Group Policy.

Module 12: Securing Windows Servers Using Group Policy Objects.

Module 13: Implementing Server Virtualization with Hyper-V.

- Microsoft Course 20411 (Exam 70-411).

Exam: 70-411 - This course is part two, of a series of three courses, which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillset and tasks across the courses this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security.

Prerequisites

Before attending this course, students must have:

- At least one year experience working with Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012.
- Good knowledge and understanding of Active Directory and Networking Infrastructure.
- Knowledge equivalent to the learning's covered in the "20410A: Installing and Configuring Windows Server 2012" course, as this course will build upon that knowledge

Course Content

At the completion of this course, students will be able to:

- Install and configure Windows Server 2012.
- Describe Active Directory Domain Services and install a domain controller.
- Create and configure user, group, and computer objects.
- Use Windows PowerShell and other command-line tools to create and configure AD DS objects.
- Configure IPv4 for simple scenarios.
- Install and configure a DHCP server.
- Install and configure DNS service.

- Configure IPv6 for simple scenarios.
- Configure local storage on a server.
- Create and secure files shares and shared printers.
- Create and manage Group Policy objects.
- Secure Windows Servers by Using Group Policy Objects.
- Implement Server Virtualization with Hyper-V.

Microsoft Course 20411 Course Outline

Module 1: Implementing a Group Policy Infrastructure.
Module 2: Managing User Desktops with Group Policy.
Module 3: Managing User and Service Accounts.
Module 4: Maintaining Active Directory Domain Services.
Module 5: Configuring and Troubleshooting DNS.
Module 6: Configuring and Troubleshooting Remote Access.
Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role.
Module 8: Implementing Network Access Protection.
Module 9: Optimizing File Services.
Module 10: Configuring Encryption and Advanced Auditing.
Module 11: Deploying and Maintaining Server Images.
Module 12: Implementing Update Management.
Module 13: Monitoring Windows Server 2012.

- Microsoft Course 20412 (Exam 70-412).

Exam: 70-412 - This course is part three, of a series of three courses, which provides the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillset and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management.

Prerequisites

Before attending this course, students must have:

- Real world, hands on experience working in a Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012 Enterprise environment.
- Real world experience Implementing, Managing and Configuring Active Directory and Networking infrastructure
- Knowledge equivalent to the learning's covered in "20410A: Installing and Configuring Windows Server 2012" and "20411A: Administering Windows Server 2012" courses, as this course will build upon that knowledge.

Course Content

After completing this course, students will be able to:

- Implementing Advanced Network Services.
- Implementing Advanced File Services.
- Implementing Dynamic Access Control.
- Implementing Network Load Balancing.
- Implementing Failover Clustering.
- Implementing Failover Clustering with Hyper-V.
- Implementing Disaster Recovery.
- Implementing Distributed AD DS Deployments.
- Implementing AD DS Sites and Replication?
- Implementing AD CS.
- Implementing AD RMS.
- Implementing AD FS.

Microsoft Course 20412 Course Outline

Module 1: Implementing Advanced Network Services.
Module 2: Implementing Advanced File Services.
Module 3: Implementing Dynamic Access Control.
Module 4: Implementing Network Load Balancing.
Module 5: Implementing Failover Clustering.
Module 6: Implementing Failover Clustering with Hyper-V.
Module 7: Implementing Disaster Recovery.
Module 8: Implementing Distributed AD DS Deployments.
Module 9: Implementing AD DS Sites and Replication.
Module 10: Implementing AD CS.
Module 11: Implementing AD RMS.
Module 12: Implementing AD FS.

Course Name:	MCSA: Windows Server 2012
Batch Course Length:	30 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	3
Hours per day:	6hrs
Certifications:	Exam: 70-410, 70-411, and 70-412
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

MICROSOFT MCSA: WINDOWS 2016 SERVER

Microsoft MCSA: Windows 2016 Server Certification

Prove your mastery of the primary set of Windows Server 2016 skills required to reduce IT costs and deliver more business value. Earning an MCSA: Windows Server 2016 certification qualifies you for a position as a network or computer systems administrator or as a computer network specialist, and it is the first step on your path to becoming a Microsoft Certified Solutions Expert (MCSE).

Required Exams (3):

- Microsoft Course 20740 (Exam 70-740).

Exam 70-740: This course is designed primarily for IT professionals who have some experience with Windows Server. It is designed for professionals who will be responsible for managing storage and compute by using Windows Server 2016, and who need to understand the scenarios, requirements, and storage and compute options that are available and applicable to Windows Server 2016.

Prerequisites

Before attending this course, students must have:

- A basic understanding of networking fundamentals.
- An awareness and understanding of security best practices.
- An understanding of basic AD DS concepts.
- Basic knowledge of server hardware.
- Experience supporting and configuring Windows client operating systems such as Windows 8 or Windows 10. Additionally, students would benefit from having some previous Windows Server operating system experience, such as experience as a Windows Server systems administrator.

Course Content

At the completion of this course, students will be able to:

- Prepare and install Nano Server, a Server Core installation, and plan a server upgrade and migration strategy.
- Describe the various storage options, including partition table formats, basic and dynamic disks, file systems, virtual hard disks, and drive hardware, and explain how to manage disks and volumes.
- Describe enterprise storage solutions, and select the appropriate solution for a given situation.
- Implement and manage Storage Spaces and Data Deduplication.
- Install and configure Microsoft Hyper-V.
- Deploy, configure, and manage Windows and Hyper-V containers.
- Describe the high availability and disaster recovery technologies in Windows Server 2016.

- Plan, create, and manage a failover cluster.
- Implement failover clustering for Hyper-V virtual machines.
- Configure a Network Load Balancing (NLB) cluster, and plan for an NLB implementation.
- Create and manage deployment images.
- Manage, monitor, and maintain virtual machine installations.

Microsoft Course 20740 Course Outline

Module 1: Installing, upgrading, and migrating servers and workloads.

Module 2: Configuring local storage.

Module 3: Implementing enterprise storage solutions.

Module 4: Implementing Storage Spaces and Data Deduplication.

Module 5: Installing and configuring Hyper-V and virtual machines.

Module 6: Deploying and managing Windows Server and Hyper-V containers.

Module 7: Overview of high availability and disaster recovery.

Module 8: Implementing and managing failover clustering.

Module 9: Implementing failover clustering for Hyper-V virtual machines.

Module 10: Implementing Network Load Balancing.

Module 11: Creating and managing deployment images.

Module 12: Managing, monitoring, and maintaining virtual machine installations.

- Microsoft Course 20741 (Exam 70-741).

Exam 70-741: This classroom-based course provides the fundamental networking skills required to deploy and support Windows Server 2016 in most organizations. It covers IP fundamentals, remote access technologies, and more advanced content including software defined networking.

Prerequisites

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

- Experience working with Windows Server 2008 or Windows Server 2012.
- Experience working in a Windows Server infrastructure enterprise environment.
- Knowledge of the Open Systems Interconnection (OSI) model.
- Understanding of core networking infrastructure components and technologies such as cabling, routers, hubs, and switches.
- Familiarity with networking topologies and architectures such as local area networks (LANs), wide area networks (WANs) and wireless networking.
- Some basic knowledge of the TCP/IP protocol stack, addressing and name resolution.

- Experience with and knowledge of Hyper-V and virtualization.
- Hands-on experience working with the Windows client operating systems such as Windows 8.1 or Windows 10.

Course Content

At the completion of this course, students will be able to:

- Plan and implement an IPv4 network.
- Implement Dynamic Host Configuration Protocol (DHCP).
- Implement IPv6.
- Implement Domain Name System (DNS).
- Implement and manage IP address management (IPAM).
- Plan for remote access.
- Implement DirectAccess.
- Implement virtual private networks (VPNs).
- Implement networking for branch offices.
- Configure advanced networking features.
- Implement software defined networking.

Microsoft Course 20741 Course Outline

Module 1: Planning and implementing an IPv4 network.

Module 2: Implementing DHCP.

Module 3: Implementing IPv6.

Module 4: Implementing DNS.

Module 5: Implementing and managing IPAM.

Module 6: Remote access in Windows Server 2016.

Module 7: Implementing DirectAccess.

Module 8: Implementing VPNs.

Module 9: Implementing networking for branch offices.

Module 10: Configuring advanced networking features.

Module 11: Implementing software defined networking.

- Microsoft Course 20742 (Exam 70-742).

Exam 70-742: This instructor-led course teaches IT Pros how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with Windows Server 2016. Additionally, this course teaches how to deploy other Active Directory server roles such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

Prerequisites

Before attending this course, students must have:

- Some exposure to and experience with AD DS concepts and technologies in Windows Server 2012 or Windows Server 2016.
- Experience working with and configuring Windows Server 2012 or Windows Server 2016.
- Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
- Experience working with and an understanding of Microsoft Hyper-V and basic server virtualization concepts.

- An awareness of basic security best practices.
- Hands-on working experience with Windows client operating systems such as Windows 7, Windows 8, Windows 8.1, or Windows 10.

Course Content

After completing this course, students will be able to:

- Install and configure domain controllers.
- Manage objects in AD DS by using graphical tools and Windows PowerShell.
- Implement AD DS in complex environments.
- Implement AD DS sites, and configure and manage replication.
- Implement and manage Group Policy Objects (GPOs).
- Manage user settings by using GPOs.
- Secure AD DS and user accounts.
- Implement and manage a certificate authority (CA) hierarchy with AD CS.
- Deploy and manage certificates.
- Implement and administer AD FS.
- Implement and administer Active Directory Rights Management Services (AD RMS).
- Implement synchronization between AD DS and Azure AD.
- Monitor, troubleshoot, and establish business continuity for AD DS services.

Microsoft Course 20742 Course Outline

Module 1: Installing and configuring DCs.

Module 2: Managing objects in AD DS.

Module 3: Advanced AD DS infrastructure management.

Module 4: Implementing and administering AD DS sites and replication.

Module 5: Implementing Group Policy.

Module 6: Managing user settings with GPOs.

Module 7: Securing AD DS.

Module 8: Deploying and managing AD CS.

Module 9: Deploying and managing certificates.

Module 10: Implementing and administering AD FS.

Module 11: Implementing and administering AD RMS.

Module 12: Implementing AD DS synchronization with Azure AD.

Module 13: Monitoring, managing, and recovering AD DS.

Course Name:	MCSA: Windows Server 2016
Batch Course Length:	30 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	3
Hours per day:	6hrs
Certifications:	Exam: 70-740, 70-741, and 70-742
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

MICROSOFT MCSE: CLOUD PLATFORM & INFRASTRUCTURE CERTIFICATION

Microsoft MCSE: Cloud Platform & Infrastructure Certification

The Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 certification shows that you have the primary set of Windows Server skills that are relevant across multiple solution areas in a business environment.

- Microsoft Course 20410 (Exam 70-410).

Exam 70-413: Get hands-on instruction and practice planning, designing and deploying a physical and logical Windows Server® 2012 R2 enterprise infrastructure in this Microsoft Official course. This course is part one in a series of two courses that provides the skills and knowledge necessary to design and implement a Windows Server 2012 R2 infrastructure in an enterprise environment. The two courses collectively cover designing, planning, deploying, securing, monitoring, automating, and virtualizing an enterprise server infrastructure. This course covers the knowledge and skills needed to provide an enterprise solution that supports manual and automated server installations in a physical and virtual environment including the supporting file and storage services. You will also learn the skills necessary to provide enterprise networking solutions such as DHCP, IPAM, VPN, and DirectAccess. You will also learn the skills necessary to design and implement a forest and domain infrastructure including multi domains/forest and branch office scenarios. This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Expert (MCSE): Exam 413: Designing and Implementing and Server Infrastructure, which is the fourth of five exams required for MCSE: Server Infrastructure certification.

Prerequisites

Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:

- 20410D: Installing and Configuring Windows Server 2012.
- 20411D: Administering Windows Server 2012.
- 20412D: Configuring Advanced Windows Server 2012 Services.
- 20417D: Upgrading Your Skills to MCSA Windows Server 2012.

Course Content

At the completion of this course, students will be able to:

- Plan server upgrade and migration.
- Plan and implement a server deployment strategy.
- Plan and deploy servers by using System Center 2012 R2 Virtual Machine Manager (VMM).

- Design and maintain an IP configuration and address management solution.
- Design and implement name resolution.
- Design and implement an AD DS forest and domain infrastructure.
- Design and implement an AD DS organizational unit (OU) infrastructure.
- Design and implement a Group Policy Object (GPO) strategy.
- Design and implement an AD DS physical topology.
- Plan and implement storage and file services.
- Design and implement network protection.
- Design and implement remote access services.

MCSE Course Outline

Module 1: Planning Server Upgrade and Migration.

Module 2: Planning and Implementing a Server Deployment Strategy.

Module 3: Planning and Deploying Servers Using Virtual Machine Manager.

Module 4: Designing and Maintaining an IP Configuration and Address Management Solution.

Module 5: Designing and Implementing Name Resolution.

Module 6: Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure.

Module 7: Designing and Implementing an AD DS Organizational Unit Infrastructure.

Module 8: Designing and Implementing a Group Policy Object Strategy.

Module 9: Designing and Implementing an AD DS Physical Topology.

Module 10: Planning and Implementing Storage and File Services.

Module 11: Designing and Implementing Network Protection.

Module 12: Designing and Implementing Remote Access Services.

Course Name:	MCSE: Cloud Platform & Infrastructure
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	1
Hours per day:	6hrs
Certifications:	Exam: 70-413
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

CORE SOLUTIONS OF MICROSOFT EXCHANGE SERVER 2013 (70-341)

Exam 70-341 - In this course, students will learn to configure and manage a Microsoft Exchange Server 2013 messaging environment. This course will teach students guidelines, best practices, and considerations that will help them optimize their Exchange server deployment. Course 20341 is an instructor-led course and will provide you with the knowledge and skills to plan, install, and manage the mailbox role, client access, transport, and Exchange infrastructure.

Audience Profile

The primary audience for this course is Information Technology (IT) professionals who are aspiring to be enterprise-level messaging administrators. Others who may take this course include IT generalists and help desk professionals who want to learn about Exchange Server 2013. Administrators coming into the course are expected to have at least 3 years of experience working in the IT field—typically in the areas of network administration, help desk, or system administration. They are not expected to have experience with previous Exchange Server versions.

At Course Completion

After completing this course, students will be able to:
Plan and perform deployment and management of Microsoft Exchange Server 2013.

Plan a Mailbox server deployment and configure the Mailbox server role.

Create and manage various recipient objects in Exchange Server 2013.

Plan and deploy Client Access servers.

Plan and configure client connectivity to Exchange Server 2013 Client Access server.

Plan and configure message transport.

Plan and implement high availability.

Plan and implement disaster recovery for Exchange Server 2013.

Plan and configure message security options.

Plan and configure administrative security and administrative auditing.

Monitor and troubleshoot Exchange Server 2013.

Prerequisites

Before attending this course, students must have:

Minimum of two years of experience administering Windows Server, including Windows Server 2008 R2 or Windows Server 2012.

Minimum of two years of experience working with Active Directory Domain Services (AD DS).

Minimum of two years of experience working with name resolution, including DNS.

Experience working with certificates, including PKI certificates.

Exam 70-341 Course Outline

Module 1: Deploying and Managing Exchange Server 2013

Module 2: Planning and Configuring Mailbox Servers

Module 3: Managing Recipient Objects

Module 4: Planning and Deploying Client Access Servers

Module 5: Planning and Configuring Messaging Client Connectivity

Module 6: Planning and Configuring Message Transport

Module 7: Planning and Implementing High Availability

Module 8: Planning and Implementing Disaster Recovery

Module 9: Planning and Configuring Message Security Options

Module 10: Planning and Configuring Administrative Security and Auditing

Module 11: Monitoring and Troubleshooting Exchange Server 2013

Course Name:	Microsoft Exchange server 2013
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	1
Hours per day:	6hrs
Certifications:	Exam: 70-341
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

ADVANCED SOLUTIONS OF MICROSOFT EXCHANGE SERVER 2013

Exam 70-342 - This course will provide you with the knowledge and skills to configure and manage a Microsoft Exchange Server 2013 messaging environment. This course will teach you how to configure Exchange Server 2013, and it will provide guidelines, best practices, and considerations that will help you optimize your Exchange Server deployment.

Audience Profile

This course is intended for people aspiring to be enterprise-level messaging administrators. Others who may take this course include IT generalists and help desk professionals who want to learn about Exchange Server 2013. People coming into the course are expected to have at least 3 years of experience working in the IT field - typically in the areas of network administration, help desk, or system administration. Students are expected to have experience with Exchange Server 2013 or with previous versions of Exchange Server.

In addition, this course is intended as preparation material for IT professionals who are looking to take the exam 70-342A: Microsoft Exchange Server 2013, Advanced Solutions, as a stand-alone, or as part of the requirement for the MCSE: Microsoft Exchange Server 2013 certification.

At Course Completion

After completing this course, students will be able to:
Design and implement Exchange Server 2013 Unified Messaging.
Design and implement site resiliency for Exchange Server 2013.
Plan a virtualization strategy for Exchange Server 2013 roles.
Design and implement message transport security.
Design and implement message retention in Exchange Server 2013.
Design and implement messaging compliance.
Design and implement administrative security in an Exchange Server 2013 environment.
Use Windows PowerShell 3.0 to manage Exchange Server 2013.
Design and implement integration with Exchange Online.
Design and implement messaging coexistence.
Design and implement Exchange Server migrations from non-Exchange messaging systems, and upgrades from previous Exchange Server versions.

Prerequisites

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

Passed 70-341: Core Solutions of Microsoft Exchange Server 2013, or equivalent

Minimum of two years of experience working with Exchange Server

Minimum of six months of experience working with Exchange Server 2010 or Exchange Server 2013

Minimum of two years of experience administering Windows Server, including Windows Server 2008 R2 or Windows Server 2012

Minimum of two years of experience working with Active Directory

Minimum of two years of experience working with name resolution, including DNS

Experience working with certificates, including public key infrastructure (PKI) certificates

Experience working with Windows PowerShell

Exam 70-342 Course Outline

Module 1: Overview of Exchange Server 2013 Unified Messaging

Module 2: Designing and implementing Exchange Server 2013 Unified Messaging

Module 3: Designing and implementing site resiliency

Module 4: Planning virtualization for Exchange Server 2013

Module 5: Designing and implementing message transport security

Module 6: Designing and implementing message retention

Module 7: Designing and implementing messaging compliance

Module 8: Designing and implementing administrative security and auditing

Module 9: Managing Exchange Server 2013 with Exchange Management Shell

Module 10: Designing and implementing integration with Exchange Online

Module 11: Designing and implementing messaging coexistence

Module 12: Designing and implementing Exchange Server migrations and upgrades.

Course Name:	Advanced MS Exchange server 2013
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	1
Hours per day:	6hrs
Certifications:	Exam: 70-342
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

ADMINISTERING MICROSOFT EXCHANGE SERVER 2016

Exam 70-345: This instructor-led course teaches IT professionals how to administer and support Exchange Server 2016. Students will learn how to install Exchange Server 2016, and how to configure and manage an Exchange Server environment. The course covers how to manage mail recipients and public folders, including how to perform bulk operations using Exchange Management Shell. Students also will learn how to manage client connectivity, message transport and hygiene, how to implement and manage highly available Exchange Server deployments, and how to implement back up and disaster recovery solutions.

The course also teaches students how to maintain and monitor an Exchange Server 2016 deployment. In addition, students will learn how to administer Exchange Online in an Office 365 deployment.

Audience profile

This course is primarily intended for people aspiring to become enterprise-level messaging administrators for Exchange Server 2016. IT generalists and help-desk professionals who want to learn about Exchange Server 2016 might also take this course. Students taking this course are expected to have at least two years of experience working in the IT field-typically in the areas of Windows Server administration, network administration, help desk, or system administration. They are not expected to have experience with previous Exchange Server versions.

The secondary audience for this course includes IT professionals who take this course as preparation material for **Exam 70-345: Designing and Deploying Microsoft Exchange Server 2016**, or as part of the requirement for the MCSE: Microsoft Exchange Server 2016 certification.

At course completion

After completing this course, students will be able to:
Perform deployment and basic management of Exchange Server 2016.

Manage Exchange Server 2016.

Create and manage various recipient objects in Exchange Server 2016.

Use Exchange Management Shell to create and manage various recipient objects in Exchange Server 2016, and perform various tasks to automate Exchange management procedures.

Configure client connectivity to Exchange Server 2016, and manage Client Access services.

Implement and manage high availability.

Implement backup and disaster recovery for Exchange Server 2016.

Configure message transport options.
Configure message hygiene and security options.
Implement and manage Exchange Online deployments.
Monitor and troubleshoot Exchange Server 2016.
Secure and maintain Exchange Server 2016.

Prerequisites

Before attending this course, students must have:

A minimum two years of experience administering Windows Server, including Windows Server 2012 R2 or Windows Server 2016.

A minimum of two years' experience working with active Directory Domain Services (AD DS). A minimum two years of experience working with name resolution including Domain Name System (DNS).

Understanding of TCP/IP and networking concepts.

Understanding of Windows Server 2012 R2 or later, and AD DS, including planning, designing, and deploying.

Understanding of security concepts such as authentication and authorization.

Understanding of Simple Mail Transfer Protocol (SMTP).

Working knowledge of public key infrastructure (PKI) technologies, including Active Directory Certificate Services (AD CS).

Exam 70-345-1 Course Outline

Module 1: Deploying Microsoft Exchange Server 2016

Module 2: Managing Microsoft Exchange Server 2016 servers

Module 3: Managing recipient objects

Module 4: Managing Microsoft Exchange Server 2016 and recipient objects by using Exchange Management Shell

Module 5: Implementing client connectivity

Module 6: Managing high availability in Exchange Server 2016

Module 7: Implementing disaster recovery for Microsoft Exchange Server 2016

Module 8: Configuring and managing message transport
Module 9: Configuring antivirus, antispam, and malware protection

Module 10: Implementing and managing Microsoft Exchange Online deployments

Module 11: Monitoring and troubleshooting Microsoft Exchange Server 2016

Module 12: Securing and maintaining Exchange Server 2016.

Course Name:	MS Exchange Server 2016
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	1
Hours per day:	6hrs
Certifications:	None
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)

DESIGNING AND DEPLOYING MICROSOFT EXCHANGE SERVER 2016

Exam 70-345: This course provides experienced Exchange Server administrators with the knowledge to design and implement an Exchange Server 2016 messaging environment. Students will learn how to design and configure advanced components in an Exchange Server 2016 deployment such as site resiliency, advanced security, compliance, archiving, and discovery solutions. In addition, students will learn about coexistence with other Exchange organizations or Exchange Online, and migration from previous versions of Exchange Server. The course will provide guidelines, best practices, and considerations that will help students optimize their Exchange Server deployment.

Audience profile

This course is intended for IT professionals who are experienced messaging administrators, messaging architects, or consultants. This course is designed for professionals in an enterprise environment who are responsible for designing and deploying Exchange Server 2016 solutions, including environments that contain previous versions of Exchange Server or Exchange Online. Students are expected to have experience with Exchange Server 2016 or previous versions of Exchange Server. This course is also intended as preparation material for IT professionals who are looking to take **Exam 70-345: Designing and Deploying Microsoft Exchange Server 2016** exam as part of the requirement for the MCSE: Microsoft Exchange Server 2016 certification.

At Course Completion

After completing this course, students will be able to:

- Plan for Exchange Server deployments.
- Plan and deploy Exchange Server 2016 Mailbox services.
- Plan and deploy message transport.
- Plan and deploy client access.
- Design and implement high availability.
- Maintain Exchange Server 2016.
- Design messaging security.
- Design and implement message retention.
- Design messaging compliance.
- Design and implement messaging coexistence.
- Upgrade to Exchange Server 2016.
- Plan a hybrid Exchange Server deployment.

Prerequisites

Before attending this course, students must have:

- A+ certification or equivalent knowledge.
- Network+ certification or equivalent knowledge.

Completed Course 2028A, Basic Administration of Microsoft Windows 2000, or have equivalent knowledge of administrative tasks.

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

Attended course 20345-1A: Administering Exchange Server 2016, or have equivalent knowledge.

Minimum two years of experience working with any version of Exchange Server.

Minimum of six months of experience working with Exchange Server 2013 or Exchange Server 2016.

Minimum of two years of experience administering the Windows Server 2012 R2.

Minimum two years of experience working with Active Directory Domain Services (AD DS).

Minimum of two years of experience working with name resolution, including Domain Name System (DNS).

Experience working with certificates, including public key infrastructure (PKI) certificates.

Experience working with Windows Powershell.

Exam 70-345-2 Course Outline

Module 1: Planning Exchange Server 2016 deployments

Module 2: Planning and deploying Exchange Server 2016 Mailbox services

Module 3: Planning and deploying message transport

Module 4: Planning and deploying client access

Module 5: Designing and implementing high availability

Module 6: Maintaining Exchange Server 2016

Module 7: Designing messaging security

Module 8: Designing and implementing message retention

Module 9: Designing messaging compliance

Module 10: Designing and implementing messaging coexistence

Design and implement cross-forest mailbox moves.

Module 11: Upgrading to Exchange Server 2016

Module 12: Planning a hybrid Exchange Server deployment.

Course Name:	MS Exchange Server 2016
Batch Course Length:	15 days
Batch Course Availability:	1 st & 15 th of Every Month
Number of Exams:	1
Hours per day:	6hrs
Certifications:	Exam 70-345
Training Locations:	Ilorin (Tanke & Geri-Alimi)
1-on-1 Course Length:	Students Determine
1-on-1 Training Location:	Ilorin (Unity) & Abuja (Maitama)