

Microsoft Training and Certification Guide

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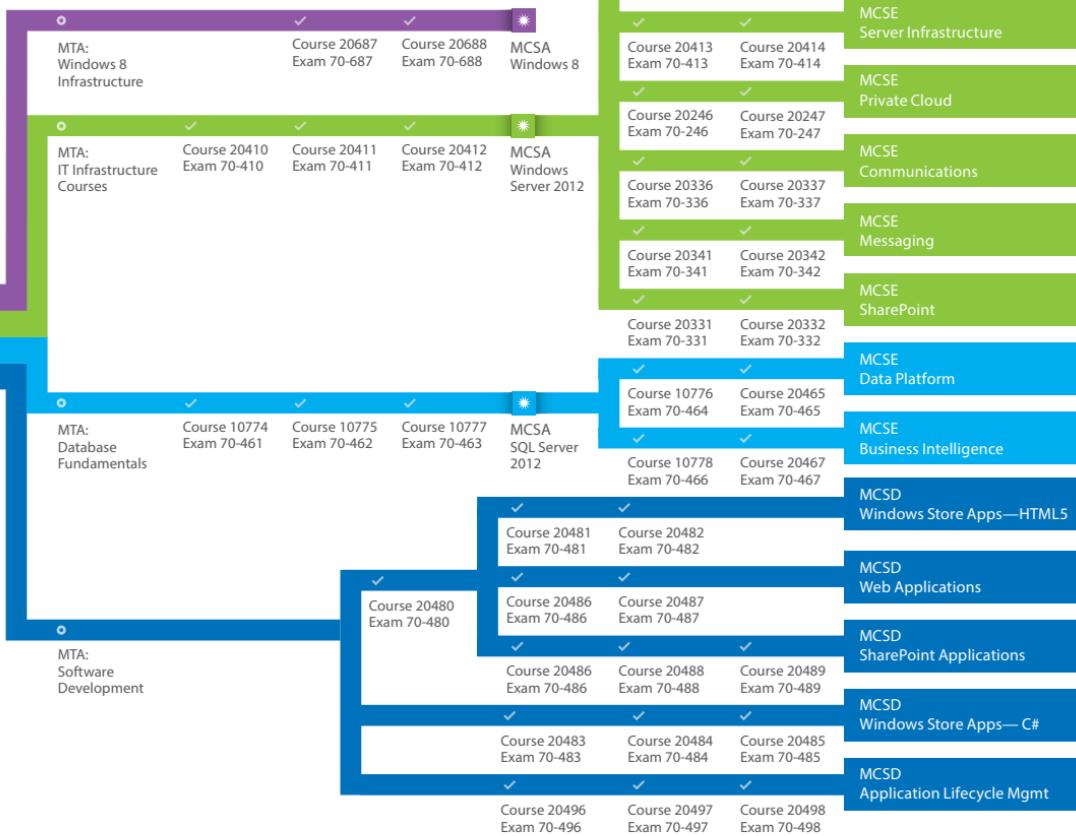
Welcome to the **Microsoft Training and Certification Guide**. This device is intended to provide a quick, comprehensive view of our training and certification landscape, and covers all of the training requisites and upgrade paths that lead to modern Microsoft Certifications. Use this guide to help you achieve your IT goals.

- New editions of this tool will be provided periodically. To ensure that you're referencing the most recent information, be sure to replace this tool as new editions are provided. Please send questions and feedback to desktopsales@tool@microsoft.com

**Client
Server**

Database

Development



Client

Microsoft Technology Associate

MTA: Windows 8 Infrastructure

Passing any one exam achieves MTA certification.

Pass all three Windows 8 Infrastructure exams to validate the breadth of skills need to pursue MCSA Client path.



COURSE 40349 EXAM 98-349

Windows Operating System Fundamentals

- Understanding Operating System Configurations
- Installing and Upgrading Client Systems
- Managing Applications
- Managing Files & Folders
- Managing Devices
- Understanding Operating System Maintenance



COURSE 40366 EXAM 98-366

Networking Fundamentals

- Understanding Network Infrastructures
- Understanding Network Hardware
- Understanding Protocols & Services



COURSE 40367 EXAM 98-367

Security Fundamentals

- Understanding Security Layers
- Understanding Operating System Security
- Understanding Network Security
- Understanding Security Software



Microsoft Certified Solutions Associate

MCSA: Windows 8

LEVEL
2

Passing both exams is required to achieve MCSA certification.



MTA

COURSE 20687 EXAM 70-687

Configuring Windows 8.1

- Install and Upgrade to Windows 8.1
- Configure Hardware and Applications
- Configure Network Connectivity
- Configure Access to Resources
- Configure Remote Access and Mobility
- Monitor and Maintain Windows Clients
- Configure System and Data Recovery Options

COURSE 20688 EXAM 70-688

Supporting Windows 8.1

- Supporting Operating System and Application Installation
- Support Resource Access
- Support Windows Clients and Devices



MCSA

WINDOWS 8

Upgrade Paths to **MCSA: Windows 8**

Passing one exam is required to achieve MCSA certification.

LEVEL
U



MCITP:

**ENTERPRISE DESKTOP
ADMINISTRATOR ON
WINDOWS 7**

**ENTERPRISE DESKTOP
SUPPORT TECHNICIAN ON
WINDOWS 7**

MCSA:

WINDOWS 7

EXAM 70-689

Upgrading Your Skills to MCSA Windows 8

- Install and Upgrade to Windows 8
- Configure Hardware and Applications
- Configure Remote Access and Mobility
- Configure Backup and Recovery Options
- Design an Installation and Application Strategy
- Maintain Resource Access
- Maintain Windows Clients and Devices
- Manage Windows 8 Using Cloud Services and Microsoft Desktop Optimization Pack



MCSA

WINDOWS 8

Server

SERVER

Microsoft Technology Associate

MTA: IT Infrastructure

Passing any one exam achieves MTA certification.

Pass all four IT Infrastructure exams to validate the breadth of skills needed to pursue MCSA.



COURSE 40349 EXAM 98-349

Windows Operating System Fundamentals

- Understanding Operating System Configurations
- Installing and Upgrading Client Systems
- Managing Applications
- Managing Files & Folders
- Managing Devices
- Understanding Operating System Maintenance



COURSE 40365 EXAM 98-365

Windows Server Administration Fundamentals

- Understanding Server Installation
- Understanding Server Roles
- Understanding Active Directory
- Understanding Storage
- Understanding Server Performance Management
- Understanding Server Maintenance



COURSE 40366 EXAM 98-366

Networking Fundamentals

- Understanding Network Infrastructures
- Understanding Network Hardware
- Understanding Protocols & Services



COURSE 40367 EXAM 98-367

Security Fundamentals

- Understanding Security Layers
- Understanding Operating System Security
- Understanding Network Security
- Understanding Security Software



Microsoft Certified Solutions Associate

MCSA: Windows Server 2012

LEVEL
2

Passing all three exams is required to achieve MCSA certification.



MTA

COURSE 20410 EXAM 70-410

Installing and Configuring Windows Server 2012

- Install and Configure Servers
- Configure Server Roles and Features
- Configure Hyper-V
- Deploy and Configure Core Network Services
- Install and Administer Active Directory
- Create and Manage Group Policy

SERVER

COURSE 20411 EXAM 70-411

Administering Windows Server 2012

- Deploy, Manage, and Maintain Servers
- Configure File & Print Services
- Configure Network Services & Access
- Configure a Network Policy Server Infrastructure
- Configure and Manage Active Directory
- Configure and Manage Group Policy

COURSE 20412 EXAM 70-412

Configuring Advanced Windows Server 2012 Services

- Configure and Manage High Availability
- Configure File and Storage Solutions
- Implement Business Continuity and Disaster Recovery
- Configure Network Services
- Configure the Active Directory Structure
- Configure Access and Information Protection Solutions



MCSA
WINDOWS
SERVER
2012

Upgrade Paths to **MCSA: Windows Server 2012**

LEVEL
U

Passing one exam is required to achieve MCSA certification.



MCITP:

**VIRTUALIZATION
ADMINISTRATOR ON
WINDOWS SERVER 2008 R2**

**ENTERPRISE MESSAGING
ADMINISTRATOR 2010**

**SHAREPOINT
ADMINISTRATOR 2010**

**ENTERPRISE DESKTOP
ADMINISTRATOR**

**LYNC SERVER
ADMINISTRATOR 2010**

MCSA:

WINDOWS SERVER 2008

SERVER

COURSE 20417 EXAM 70-417

Upgrading Your Skills to MCSA Windows Server 2012

- Install and Configure Servers
- Configure Server Roles and Features
- Configure Hyper-V
- Install and Administer Active Directory
- Deploy, Manage, and Maintain Servers
- Configure Network Services and Access
- Configure a Network Policy Server Infrastructure
- Configure and Manage Active Directory
- Configure and Manage Group Policy
- Configure and Manage High Availability
- Configure File and Storage Solutions
- Implement Business Continuity and Disaster Recovery
- Configure Network Services
- Configure Identity and Access Solutions



MCSA

**WINDOWS
SERVER
2012**

Microsoft Certified Solutions Expert

MCSE: Desktop Infrastructure

Passing both exams is required to achieve MCSE certification.



MCSA

WINDOWS
SERVER
2012

SERVER



COURSE 20415 EXAM 70-415

Implementing a Desktop Infrastructure

- Create and Maintain Desktop Images
- Design and Deploy Desktops
- Plan and Implement a Remote Desktop Services Infrastructure
- Design and Configure Desktop Settings
- Manage and Maintain a Desktop Infrastructure



COURSE 20416 EXAM 70-416

Implementing Desktop Application Environments

- Design and Prepare the Application Environment
- Design and Implement a Presentation Virtualization Environment
- Design and Implement an Application Virtualization Environment
- Deploy, Manage, and Maintain the Application Environment
- Design Business Continuity for the Desktop and Application Environment



MCSE

DESKTOP
INFRASTRUCTURE

Microsoft Certified Solutions Expert

MCSE: Server Infrastructure

Passing both exams is required to achieve MCSE certification.



MCSA

WINDOWS
SERVER
2012



COURSE 20413 EXAM 70-413

- Designing and Implementing a Server Infrastructure
- Plan and Deploy a Server Infrastructure
 - Design and Implement Network Infrastructure Services
 - Design and Implement Network Access Services
 - Design and Implement an Active Directory Infrastructure (Logical)
 - Design and Implement an Active Directory Infrastructure (Physical)



COURSE 20414 EXAM 70-414

- Implementing an Advanced Server Infrastructure
- Manage and Maintain a Server Infrastructure
 - Plan and Implement a Highly Available Enterprise Infrastructure
 - Plan and Implement a Server Virtualization Infrastructure
 - Design and Implement Identity and Access Solutions



MCSE

SERVER
INFRASTRUCTURE

Microsoft Certified Solutions Expert

MCSE: Private Cloud

LEVEL
3

Passing both exams is required to achieve MCSE certification.



MCSA
WINDOWS
SERVER
2012

SERVER



COURSE 20246 EXAM 70-246

Monitoring and Operating a
Private Cloud Using System
Center 2012

- Configure Data Center Process Automation
- Deploy Resource Monitoring
- Monitor Resources
- Configure and Maintain Service Management
- Manage Configuration and Protection



COURSE 20247 EXAM 70-247

Configuring and Deploying a
Private Cloud Using System
Center 2012

- Design and Deploy System Center
- Configure System Center Infrastructure
- Configure the Fabric
- Configure System Center Integration
- Configure and Deploy Virtual Machines and Services



MCSE
PRIVATE
CLOUD

Microsoft Certified Solutions Expert

MCSE: Communications

Passing both exams is required to achieve MCSE certification.



MCSA
WINDOWS
SERVER
2012



COURSE 20336 EXAM 70-336

Core Solutions of Microsoft Lync Server 2013

- Plan and Design a Lync Topology
- Plan and Design Lync Features
- Deploy and Configure Lync
- Manage Operations and Data Resiliency for Lync



COURSE 20337 EXAM 70-337

Enterprise Voice and Online Services with Microsoft Lync Server 2013

- Design Enterprise Voice
- Design and Configure Network Services
- Configure Enterprise Voice
- Plan and Configure a Lync Online Hybrid Solution



MCSE
COMMUNICATIONS

Microsoft Certified Solutions Expert

MCSE: Messaging

LEVEL
3

Passing both exams is required to achieve MCSE certification.



MCSA

WINDOWS
SERVER
2012

SERVER



COURSE 20341 EXAM 70-341

Core Solutions of Microsoft Exchange Server 2013

- Plan, Install, Configure, and Manage Transport
- Install, Configure, and Manage the Mailbox Role
- Plan, Install, Configure, and Manage Client Access
- Design and Manage an Exchange Infrastructure



COURSE 20342 EXAM 70-342

Advanced Solutions of Microsoft Exchange Server 2013

- Configure, Manage, and Migrate Unified Messaging
- Design, Configure, and Manage Site Resiliency
- Troubleshooting
- Configure and Manage Compliance, Archiving, and Discovery Solutions
- Implement and Manage Coexistence, Hybrid Scenarios, Migration, and Federation



MCSE

MESSAGING

Microsoft Certified Solutions Expert

MCSE: SharePoint

LEVEL
3

Passing both exams is required to achieve MCSE certification.



MCSA

WINDOWS
SERVER
2012

SERVER



COURSE 20331 EXAM 70-331

Core Solutions of Microsoft SharePoint Server 2013

- Design a SharePoint Topology
- Plan Security
- Install and Configure SharePoint Farms
- Create and Configure Web Applications and Site Collections
- Maintain a Core SharePoint Environment



MCSE

SHAREPOINT

COURSE 20332 EXAM 70-332

Advanced Solutions of Microsoft SharePoint Server 2013

- Plan Business Continuity Management
- Plan a SharePoint Environment
- Upgrade and Migrate a SharePoint Environment
- Create and Configure Service Applications
- Manage SharePoint Solutions, BI, and Systems Integration

Database

DATABASE

Microsoft Technology Associate MTA: Database Fundamentals

Passing any one exam achieves MTA certification.

Pass set of 4 IT Infrastructure exams to validate breadth of skills needed for DBA career.



COURSE 40364 EXAM 98-364

Database Fundamentals

- Understanding Security Layers
- Understanding Operating System Security
- Understanding Network Security
- Understanding Security Software

IT INFRASTRUCTURE COURSES & EXAMS (see page 9)

- Windows Operating System Fundamentals
- Windows Server Administration Fundamentals
- Networking Fundamentals
- Security Fundamentals



Microsoft Certified Solutions Associate

MCSA: SQL Server 2012

LEVEL
2

Passing all three exams is required to achieve MCSA certification.



MTA

COURSE 10774 EXAM 70-461

Querying Microsoft SQL Server 2012

- Create Database Objects
- Work with Data
- Modify Data
- Troubleshoot & Optimize

COURSE 10775 EXAM 70-462

Administering Microsoft SQL Server 2012 Databases

- Install and Configure
- Maintain Instances
and Databases
- Optimize and Troubleshoot
- Manage Data
- Implement Security
- Implement High Availability

COURSE 10777 EXAM 70-463

Implementing a Data Warehouse with Microsoft SQL Server 2012

- Design and Implement
a Data Warehouse
- Extract and Transform
Data Load Data
- Configure and Deploy
SSIS Solutions
- Build Data Quality Solutions



MCSA
SQL SERVER
2012

Upgrade Paths to MCSA: SQL Server 2012

Passing two exams is required to achieve MCSA certification.



MCTS:

**SQL SERVER 2008,
IMPLEMENTATION AND
MAINTENANCE**

**SQL SERVER 2008,
BUSINESS INTELLIGENCE
DEVELOPMENT AND
MAINTENANCE**

**SQL SERVER 2008,
DATABASE DEVELOPMENT**

MCSA:

SQL SERVER 2008

EXAM 70-457

Transition Your MCTS on
SQL Server 2008 to MCSA:
SQL Server 2012, Part 1

- Create Database Objects
- Work with Data
- Modify Data
- Troubleshoot and Optimize Queries
- Install and Configure SQL Server
- Maintain Instances and Databases
- Optimize and Troubleshoot SQL Server

EXAM 70-458

Transition Your MCTS on
SQL Server 2008 to MCSA:
SQL Server 2012, Part 2

- Manage Data
- Implement Security
- Implement High Availability
- Design and Implement
a Data Warehouse
- Extract and Transform Data
- Load Data
- Configure and Deploy SSIS Solutions
- Build Data Quality Solutions



Microsoft Certified Solutions Expert

MCSE: Data Platform

LEVEL
3

Passing both exams is required to achieve MCSE certification.



COURSE 10776 EXAM 70-464

Developing Microsoft SQL Server 2012 Databases

- Implement Database Objects
- Implement Programming Objects
- Design Database Objects
- Optimize and Troubleshoot Queries

COURSE 20465 EXAM 70-465

Designing Database Solutions for Microsoft SQL Server 2012

- Design Database Structure
- Design Databases and Database Objects
- Design Database Security
- Design a Troubleshooting and Optimization Solution

Microsoft Certified Solutions Expert

MCSE: Business Intelligence

LEVEL
3

Passing both exams is required to achieve MCSE certification.



COURSE 10778 EXAM 70-466

Implementing Data Models
and Reports with Microsoft
SQL Server 2012

- Build an Analysis Services Database
- Manage, Maintain, and Troubleshoot an SSAS Database
- Build a Tabular Data Model
- Build a Report with SQL Server Reporting Services (SSRS)



COURSE 20467 EXAM 70-467

Designing Business Intelligence
Solutions with Microsoft
SQL Server 2012

- Plan Business Intelligence (BI) Infrastructure
- Design BI Infrastructure
- Design a Reporting Solution
- Design BI Data Models
- Design an ETL Solution



Development

DEVELOPMENT

Microsoft Technology Associate

MTA: Software Development

Passing any one exam achieves MTA certification.

Pass additional exams to validate breadth of skills needed for given MCSD path.



COURSE 40361 EXAM 98-361

Software Develop- ment Fundamentals

- Understanding Core Programming
- Understanding Object-Oriented Programming
- Understanding General Software Development
- Understanding Web Applications
- Understanding Desktop Applications
- Understanding Databases

COURSE 40362 EXAM 98-362

Windows Development Fundamentals

- Understanding Windows Programming Basics
- Creating Windows Forms Applications
- Creating Windows Services Applications
- Accessing Data in a Windows Forms Applications
- Deploying a Windows Application

COURSE 40363 EXAM 98-363

Web Development Fundamentals

- Programming Web Applications
- Working with Data and Services
- Troubleshooting and Debugging Web Applications
- Working with Client-Side Scripting
- Configuring and Deploying Web Applications

COURSE 40372 EXAM 98-372

Microsoft .NET Fundamentals

- Understanding .NET Framework Concepts
- Namespaces and Classes in the .NET Framework
- Understanding .NET Code Compilation
- Understanding I/O Classes in the .NET Framework
- Understanding Security
- Understanding .NET Languages
- Understanding Memory Management

COURSE 40375 EXAM 98-375

HTML5 Application Development Fundamentals

- Manage the Application Life Cycle
- Build the User Interface by Using HTML5
- Format the User Interface by Using CSS
- Code by Using JavaScript



Microsoft Certified Solutions Developer

MCSD: SharePoint Applications

LEVEL
3

Passing all four exams is required to achieve MCSD certification.



MTA

COURSE 20480 EXAM 70-480

Programming in
HTML5 with JavaScript
and CSS3

- Implement and Manipulate Document Structure and Objects
- Implement Program Flow
- Access and Secure Data
- Use CSS3 in Applications

COURSE 20486 EXAM 70-486

Developing ASP.NET
4.5MVC Web
Applications

- Design the Application Architecture
- Design the User Experience
- Develop the User Experience
- Troubleshoot and Debug Web Applications
- Design and Implement Security

COURSE 20488 EXAM 70-488

Developing Microsoft
SharePoint Server 2013
Core Solutions

- Plan and Design SharePoint Sites
- Implement Authorization and Authentication
- Access and Manage Data
- Implement SharePoint Solutions
- Implement the User Experience and Information Architecture
- Create Business Processes
- Create Office Applications

COURSE 20489 EXAM 70-489

Developing Microsoft
SharePoint Server 2013
Advanced Solutions

- Design and Implement Search
- Implement Business Connectivity Services
- Implement User Profiles and Customize Social Workload
- Implement Enterprise Content Management and Web Content Management
- Design for Performance and Troubleshooting
- Implement Managed Metadata Service



Microsoft Certified Solutions Developer

MCSD: Web Applications

LEVEL
3

Passing all three exams is required to achieve MCSD certification.



MTA

COURSE 20480 EXAM 70-480

Programming in HTML5
with JavaScript and CSS3

- Implement and Manipulate Document Structure and Objects
- Implement Program Flow
- Access and Secure Data
- Use CSS3 in Applications

COURSE 20486 EXAM 70-486

Developing ASP.NET 4.5
MVC Web Applications

- Design the Application Architecture
- Design the User Experience
- Develop the User Experience
- Troubleshoot and Debug Web Applications
- Design and Implement Security

COURSE 20487 EXAM 70-487

Developing Windows
Azure and Web Services

- Accessing Data
- Querying and Manipulating Data by Using the Entity Framework
- Designing and Implementing WCF Services
- Creating and Consuming Web API-based Services
- Deploying Web Applications and Services



Microsoft Certified Solutions Developer

MCSD: Windows Store Apps Using HTML5

LEVEL
3

Passing all three exams is required to achieve MCSD certification.



MTA

COURSE 20480 EXAM 70-480

- Programming in HTML5 with JavaScript and CSS3
- Implement and Manipulate Document Structure and Objects
 - Implement Program Flow
 - Access and Secure Data
 - Use CSS3 in Applications

COURSE 20481 EXAM 70-481

- Essential of Developing Windows Store Apps using HTML5 and JavaScript
- Design Windows Store Apps
 - Develop Windows Store Apps
 - Create the User Interface
 - Program User Interaction
 - Manage Security and Data

COURSE 20482 EXAM 70-482

- Advanced Windows Store App Development using HTML5 and JavaScript
- Develop Windows Store Apps
 - Discover and Interact with Devices
 - Program User Interaction
 - Enhance the User Interface
 - Manage Data and Security
 - Prepare for a Solution Deployment



MCSD

WINDOWS STORE
APPS USING
HTML5

Microsoft Certified Solutions Developer

MCSD: Windows Store Apps Using C#

Passing all three exams is required to achieve MCSD certification.

**MTA**

COURSE 20483 EXAM 70-483

- Programming in C#**
- Manage Program Flow
 - Create and Use Types
 - Debug Applications and Implement Security
 - Implement Data Access

COURSE 20484 EXAM 70-484

- Essential of Developing Windows Store Apps using C#**
- Design Windows Store Apps
 - Develop Windows Store Apps
 - Create the User Interface
 - Program User Interaction
 - Manage Security and Data

COURSE 20485 EXAM 70-485

- Advanced Windows Store App Development using C#**
- Develop Windows Store Apps
 - Discover and Interacting with Devices
 - Program User Interaction
 - Enhance the User Interface
 - Manage Data and Security
 - Prepare for a Solution Deployment

**MCSD**
WINDOWS
STORE APPS
USING C#

Microsoft Certified Solutions Developer

MCSD: Application Lifecycle Management

LEVEL
3

Passing all three exams is required to achieve MCSD certification.



MTA

COURSE 20496 EXAM 70-496

Administering Microsoft Visual Studio Team Foundation Server 2012

- Install and Configure Team Foundation Server
- Manage Team Foundation Server
- Customize Team Foundation Server for Team Use
- Administer Version Control

COURSE 20497 EXAM 70-497

Software Testing with Visual Studio 2012

- Create and Configure Test Plans
- Manage Test Cases
- Manage Test Execution

COURSE 20498 EXAM 70-498

Delivering Continuous Value with Visual Studio 2012 Application Lifecycle Mgmt

- Define an Effective End-to-End Software Development Lifecycle
- Define the ALM Process
- Define a Software Iteration
- Define End Value for the Software Iteration
- Develop Customer Value with High Quality
- Integrate Development and Operations



MCSD
WINDOWS
STORE APPS
USING C#

Services

SERVICES

Microsoft Certified Solutions Associate

MCSA: Office 365

LEVEL
2

Passing two exams achieves an MCSA certification.



MTA

COURSE 20346 EXAM 70-346

Managing Office 365 Identities and Requirements

- Provision Office 365
- Plan & Implement Networking & Security in Office 365
- Manage Cloud Identities
- Implement & Manage Identities by Using DirSync
- Implement & Manage Federated Identities [single sign-on (SSO)]
- Monitor & Troubleshoot Office 365 Availability & Usage



COURSE 20347 EXAM 70-347

Enabling Office 365 Services

- Manage Clients & End-User Devices
- Provision SharePoint Online Site Collections
- Configure Exchange Online & Lync Online for End Users
- Plan for Exchange Online & Lync Online



MCSA
OFFICE 365



SERVICES

Upgrade

UPGRADE

Upgrade Paths to **MCSA: Windows 8**

LEVEL
U

Passing one exam is required to achieve MCSA certification.



MCITP:

**ENTERPRISE DESKTOP
ADMINISTRATOR ON
WINDOWS 7**

**ENTERPRISE DESKTOP
SUPPORT TECHNICIAN ON
WINDOWS 7.**

MCSA:

WINDOWS 7

EXAM 70-689

Upgrading Your Skills to MCSA Windows 8

- Install and Upgrade to Windows 8
- Configure Hardware and Applications
- Configure Remote Access and Mobility
- Configure Backup and Recovery Options
- Design an Installation and Application Strategy
- Maintain Resource Access
- Maintain Windows Clients and Devices
- Manage Windows 8 Using Cloud Services and Microsoft Desktop Optimization Pack



MCSA

WINDOWS 8

Upgrade Paths to **MCSA: Windows Server 2012**

LEVEL
U

Passing one exam is required to achieve MCSA certification.



MCITP:

**VIRTUALIZATION
ADMINISTRATOR**

**ENTERPRISE MESSAGING
ADMINISTRATOR 2010**

**SHAREPOINT
ADMINISTRATOR 2010**

**ENTERPRISE DESKTOP
ADMINISTRATOR**

**LYNC SERVER
ADMINISTRATOR 2010**

MCSA:

WINDOWS SERVER 2008

COURSE 20417 EXAM 70-417

Upgrading Your Skills to MCSA Windows Server 2012

- Install and Configure Servers
- Configure Server Roles and Features
- Configure Hyper-V
- Install and Administer Active Directory
- Deploy, Manage, and Maintain Servers
- Configure Network Services and Access
- Configure a Network Policy Server Infrastructure
- Configure and Manage Active Directory
- Configure and Manage Group Policy
- Configure and Manage High Availability
- Configure File and Storage Solutions
- Implement Business Continuity and Disaster Recovery
- Configure Network Services
- Configure Identity and Access Solutions



MCSA

**WINDOWS
SERVER
2012**

UPGRADE

Upgrade Paths to **MCSA: SQL Server 2012**

Passing two exams is required to achieve MCSA certification.



MCTS:

**SQL SERVER 2008,
IMPLEMENTATION AND
MAINTENANCE**

**SQL SERVER 2008,
BUSINESS INTELLIGENCE
DEVELOPMENT AND
MAINTENANCE**

**SQL SERVER 2008,
DATABASE DEVELOPMENT**

MCSA:

SQL SERVER 2008

EXAM 70-457

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 1

- Create Database Objects
- Work with Data
- Modify Data
- Troubleshoot and Optimize Queries
- Install and Configure SQL Server
- Maintain Instances and Databases
- Optimize and Troubleshoot SQL Server

EXAM 70-458

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 2

- Manage Data
- Implement Security
- Implement High Availability
- Design and Implement a Data Warehouse
- Extract and Transform Data
- Load Data
- Configure and Deploy SSIS Solutions
- Build Data Quality Solutions



MCSA
SQL SERVER
2012

Upgrade Paths to MCSD: SharePoint Applications

LEVEL
U

Passing two exams is required to achieve MCSD certification.



MCSD:

WEB APPLICATIONS

COURSE 20488 EXAM 70-488

Developing Microsoft SharePoint Server 2013 Core Solutions

- Plan & Design SharePoint Sites
- Implement Authorization & Authentication
- Access and Manage Data
- Implement SharePoint Solutions
- Implement the User Experience and Information Architecture
- Create Business Processes
- Create Office Applications

COURSE 20489 EXAM 70-489

Developing Microsoft SharePoint Server 2013 Advanced Solutions

- Design & Implement Search
- Implement Business Connectivity Services
- Implement User Profiles & Customize Social Workload
- Implement Enterprise Content Management & Web Content Management
- Design for Performance & Troubleshooting
- Implement Managed Metadata Service



MCSD

SHAREPOINT
APPLICATIONS

UPGRADE

Guidance

GUIDANCE

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BY JOB ROLE	ENTRY LEVEL	ASSOCIATE LEVEL	EXPERT LEVEL	PATH	PAGE
BI and Reporting Engineer	MTA: Database Fundamentals	MCSA: SQL Server 2012	MCSE: Business Intelligence	Database	23
Business Analysts	MTA: Database Fundamentals	MCSA: SQL Server 2012	MCSE: Business Intelligence	Database	23
Cloud Developer	MTA: Software Development	Progress towards Expert Level	MCSD: Web Applications	Development	27
Cloud Engineer/Administrator	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Private Cloud	Server	14
Computer Programmer	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29
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Data Center Manager	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Database Administrator/Designer	MTA: Database Fundamentals	MCSA: SQL Server 2012	MCSE: Data Platform	Database	22
Desktop Management Technician/Admin	MTA: IT Infrastructure	MCSA: Windows 8	MCSE: Desktop Infrastructure	Client/Server	12
Exchange Server Administrator	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Messaging	Server	16
Field Service Technician	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Help Desk Analyst	MTA: IT Infrastructure	MCSA: Windows 8	MCSE: Desktop Infrastructure	Client/Server	12
Information Assurance Technician	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Information System Manager	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
IT Support Admin/Specialist/Technician	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Mobile Application Developer	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29
Network Administrator/Engineer/Technician/Support Specialist	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Project Manager (IT Pro)	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Project Manager (S/W Dev)	MTA: Software Development	Progress towards Expert Level	MCSD: App Lifecycle Mgmt	Services	32
Security Administrator/Analyst/Architect/Engineer/Consultant	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Server Administrator	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
SharePoint Developer/Administrator	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: SharePoint	Server	17
Software Architect	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29
Software Build Engineer	MTA: Software Development	Progress towards Expert Level	MCSD: App Lifecycle Mgmt	Services	32
Software Developer	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29

BY JOB ROLE	ENTRY LEVEL	ASSOCIATE LEVEL	EXPERT LEVEL	PATH	PAGE
Software Quality Assurance Engineer	MTA: Software Development	Progress towards Expert Level	MCSD: App Lifecycle Mgmt	Services	32
Solutions Engineer	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29
Solutions Engineer	MTA: Software Development	Progress towards Expert Level	MCSD: App Lifecycle Mgmt	Services	32
Systems Admin/Engineer/Analyst	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Technical Support Specialist	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Server Infrastructure	Server	13
Telecommunications Consultant	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Communication	Server	15
Test Engineer	MTA: Software Development	Progress towards Expert Level	MCSD: App Lifecycle Mgmt	Services	32
Video Game Designer	MTA: Software Development	Progress towards Expert Level	MCSD: Windows Store Apps	Development	26-29
Virtualization Engineer/Administrator	MTA: IT Infrastructure	MCSA: Windows Server 2012	MCSE: Private Cloud	Server	14
Web Administrator	MTA: Software Development	Progress towards Expert Level	MCSD: Web Applications	Development	27
Web Developer	MTA: Software Development	Progress towards Expert Level	MCSD: Web Applications	Development	27