Certification Roadmap

Microsoft provides the technology skills that you and your students need to be successful in the classroom and in your career.

Start by choosing your area of study and certification path for college and career readiness

Microsoft Certifications

★ **Microsoft Office Specialist (MOS)**
Validates mastery of Office applications, proving productivity software skills.

◎ **Microsoft Technology Associate (MTA)**
Measures mastery of core concepts in software development, programming, and information technology. Supports learning in computer science, IT infrastructure, and data science.
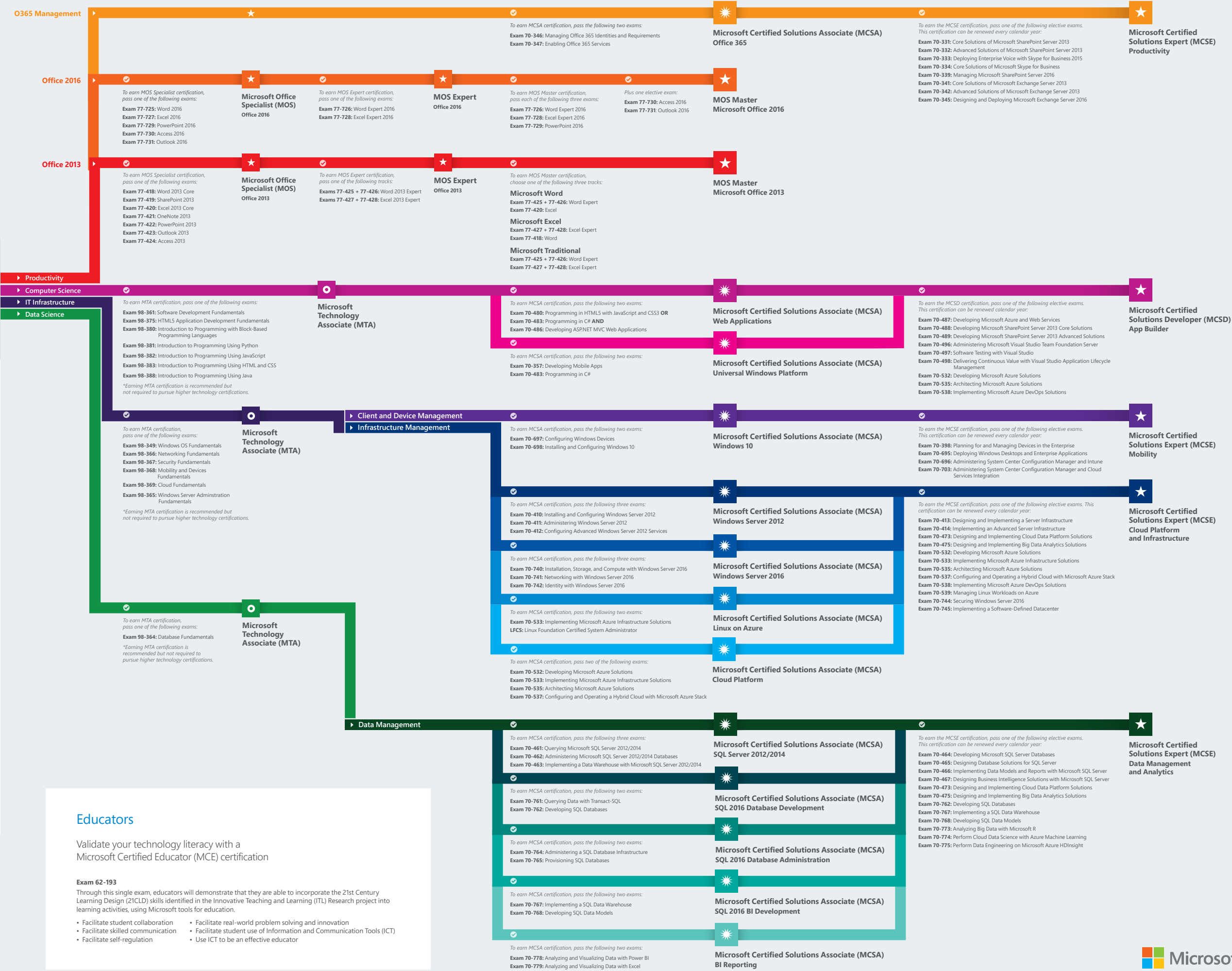
✸ **Microsoft Certified Solutions Associate (MCSA)**
Certifies core IT and development concept competencies for a sustainable career in technology and is a prerequisite for MCSD or MCSE.

✸ **Microsoft Certified Solutions Developer (MCSD)**
The globally recognized standard for developer excellence. Each calendar year, renew the certification by passing a unique elective exam, demonstrating continued investment to broaden or deepen skills in a specific technology area.

★ **Microsoft Certified Solutions Expert (MCSE)**
The globally recognized standard for IT professionals. Each calendar year, renew the certification by passing a unique elective exam, demonstrating continued investment to broaden or deepen skills in a specific technology area.

Additional Microsoft certification paths are available at:
www.microsoft.com/learning

Release date: January 2018. Information is subject to change.

Educators

Validate your technology literacy with a Microsoft Certified Educator (MCE) certification

Exam 62-193
Through this single exam, educators will demonstrate that they are able to incorporate the 21st Century Learning Design (21CLD) skills identified in the Innovative Teaching and Learning (ITL) Research project into learning activities, using Microsoft tools for education.

- Facilitate student collaboration
- Facilitate skilled communication
- Facilitate self-regulation
- Facilitate real-world problem solving and innovation
- Facilitate student use of Information and Communication Tools (ICT)
- Use ICT to be an effective educator

O365 Management

Microsoft Certified Solutions Associate (MCSA) Office 365

To earn MCSA certification, pass the following two exams:
Exam 70-346: Managing Office 365 Identities and Requirements
Exam 70-347: Enabling Office 365 Services

Microsoft Certified Solutions Expert (MCSE) Productivity

To earn the MCSE certification, pass one of the following elective exams. This certification can be renewed every calendar year:
Exam 70-331: Core Solutions of Microsoft SharePoint Server 2013
Exam 70-332: Advanced Solutions of Microsoft SharePoint Server 2013
Exam 70-333: Deploying Enterprise Voice with Skype for Business 2015
Exam 70-334: Core Solutions of Microsoft Skype for Business
Exam 70-339: Managing Microsoft SharePoint Server 2016
Exam 70-341: Core Solutions of Microsoft Exchange Server 2013
Exam 70-342: Advanced Solutions of Microsoft Exchange Server 2013
Exam 70-345: Designing and Deploying Microsoft Exchange Server 2016

Office 2016

Microsoft Office Specialist (MOS) Office 2016

To earn MOS Specialist certification, pass one of the following exams:
Exam 77-725: Word 2016
Exam 77-727: Excel 2016
Exam 77-729: PowerPoint 2016
Exam 77-730: Access 2016
Exam 77-731: Outlook 2016

MOS Expert Office 2016

To earn MOS Expert certification, pass one of the following exams:
Exam 77-726: Word Expert 2016
Exam 77-728: Excel Expert 2016

MOS Master Microsoft Office 2016

To earn MOS Master certification, pass each of the following three exams:
Exam 77-726: Word Expert 2016
Exam 77-728: Excel Expert 2016
Exam 77-729: PowerPoint 2016

Plus one elective exam:
Exam 77-730: Access 2016
Exam 77-731: Outlook 2016

Office 2013

Microsoft Office Specialist (MOS) Office 2013

To earn MOS Specialist certification, pass one of the following exams:
Exam 77-418: Word 2013 Core
Exam 77-419: SharePoint 2013
Exam 77-420: Excel 2013 Core
Exam 77-421: OneNote 2013
Exam 77-422: PowerPoint 2013
Exam 77-423: Outlook 2013
Exam 77-424: Access 2013

MOS Expert Office 2013

To earn MOS Expert certification, choose one of the following tracks:
Exams 77-425 + 77-426: Word 2013 Expert
Exams 77-427 + 77-428: Excel 2013 Expert

MOS Master Microsoft Office 2013

To earn MOS Master certification, choose one of the following three tracks:

Microsoft Word
Exam 77-425 + 77-426: Word Expert
Exam 77-420: Excel

Microsoft Excel
Exam 77-427 + 77-428: Excel Expert
Exam 77-418: Word

Microsoft Traditional
Exam 77-425 + 77-426: Word Expert
Exam 77-427 + 77-428: Excel Expert

▸ Productivity
▸ Computer Science
▸ IT Infrastructure
▸ Data Science

Computer Science

Microsoft Technology Associate (MTA)

To earn MTA certification, pass one of the following exams:
Exam 98-361: Software Development Fundamentals
Exam 98-375: HTML5 Application Development Fundamentals
Exam 98-380: Introduction to Programming with Block-Based Programming Languages
Exam 98-381: Introduction to Programming Using Python
Exam 98-382: Introduction to Programming Using JavaScript
Exam 98-383: Introduction to Programming Using HTML and CSS
Exam 98-388: Introduction to Programming Using Java

Earning MTA certification is recommended but not required to pursue higher technology certifications.

Microsoft Certified Solutions Associate (MCSA) Web Applications

To earn MCSA certification, pass the following two exams:
Exam 70-480: Programming in HTML5 with JavaScript and CSS3 **OR**
Exam 70-483: Programming in C# **AND**
Exam 70-486: Developing ASP.NET MVC Web Applications

Microsoft Certified Solutions Associate (MCSA) Universal Windows Platform

To earn MCSA certification, pass the following two exams:
Exam 70-357: Developing Mobile Apps
Exam 70-483: Programming in C#

Microsoft Certified Solutions Developer (MCSD) App Builder

To earn the MCSD certification, pass one of the following elective exams. This certification can be renewed every calendar year:
Exam 70-487: Developing Microsoft Azure and Web Services
Exam 70-488: Developing Microsoft SharePoint Server 2013 Core Solutions
Exam 70-489: Developing Microsoft SharePoint Server 2013 Advanced Solutions
Exam 70-496: Administering Microsoft Visual Studio Team Foundation Server
Exam 70-497: Software Testing with Visual Studio
Exam 70-498: Delivering Continuous Value with Visual Studio Application Lifecycle Management
Exam 70-532: Developing Microsoft Azure Solutions
Exam 70-535: Architecting Microsoft Azure Solutions
Exam 70-538: Implementing Microsoft Azure DevOps Solutions

IT Infrastructure

▸ Client and Device Management
▸ Infrastructure Management

Microsoft Technology Associate (MTA)

To earn MTA certification, pass one of the following exams:
Exam 98-349: Windows OS Fundamentals
Exam 98-366: Networking Fundamentals
Exam 98-367: Security Fundamentals
Exam 98-368: Mobility and Devices Fundamentals
Exam 98-369: Cloud Fundamentals
Exam 98-365: Windows Server Administration Fundamentals

Earning MTA certification is recommended but not required to pursue higher technology certifications.

Microsoft Certified Solutions Associate (MCSA) Windows 10

To earn MCSA certification, pass the following two exams:
Exam 70-697: Configuring Windows Devices
Exam 70-698: Installing and Configuring Windows 10

Microsoft Certified Solutions Expert (MCSE) Mobility

To earn the MCSE certification, pass one of the following elective exams. This certification can be renewed every calendar year:
Exam 70-398: Planning for and Managing Devices in the Enterprise
Exam 70-695: Deploying Windows Desktops and Enterprise Applications
Exam 70-696: Administering System Center Configuration Manager and Intune
Exam 70-703: Administering System Center Configuration Manager and Cloud Services Integration

Microsoft Certified Solutions Associate (MCSA) Windows Server 2012

To earn MCSA certification, pass the following three exams:
Exam 70-410: Installing and Configuring Windows Server 2012
Exam 70-411: Administering Windows Server 2012
Exam 70-412: Configuring Advanced Windows Server 2012 Services

Microsoft Certified Solutions Associate (MCSA) Windows Server 2016

To earn MCSA certification, pass the following three exams:
Exam 70-740: Installation, Storage, and Compute with Windows Server 2016
Exam 70-741: Networking with Windows Server 2016
Exam 70-742: Identity with Windows Server 2016

Microsoft Certified Solutions Associate (MCSA) Linux on Azure

To earn MCSA certification, pass the following two exams:
Exam 70-533: Implementing Microsoft Azure Infrastructure Solutions
LFCS: Linux Foundation Certified System Administrator

Microsoft Certified Solutions Associate (MCSA) Cloud Platform

To earn MCSA certification, pass two of the following exams:
Exam 70-532: Developing Microsoft Azure Solutions
Exam 70-533: Implementing Microsoft Azure Infrastructure Solutions
Exam 70-535: Architecting Microsoft Azure Solutions
Exam 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack

Microsoft Certified Solutions Expert (MCSE) Cloud Platform and Infrastructure

To earn the MCSE certification, pass one of the following elective exams. This certification can be renewed every calendar year:
Exam 70-413: Designing and Implementing a Server Infrastructure
Exam 70-414: Implementing an Advanced Server Infrastructure
Exam 70-473: Designing and Implementing Cloud Data Platform Solutions
Exam 70-475: Designing and Implementing Big Data Analytics Solutions
Exam 70-532: Developing Microsoft Azure Solutions
Exam 70-533: Implementing Microsoft Azure Infrastructure Solutions
Exam 70-535: Architecting Microsoft Azure Solutions
Exam 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack
Exam 70-538: Implementing Microsoft Azure DevOps Solutions
Exam 70-539: Managing Linux Workloads on Azure
Exam 70-744: Securing Windows Server 2016
Exam 70-745: Implementing a Software-Defined Datacenter

Data Science

Microsoft Technology Associate (MTA)

To earn MTA certification, pass one of the following exams:
Exam 98-364: Database Fundamentals

Earning MTA certification is recommended but not required to pursue higher technology certifications.

▸ Data Management

Microsoft Certified Solutions Associate (MCSA) SQL Server 2012/2014

To earn MCSA certification, pass the following three exams:
Exam 70-461: Querying Microsoft SQL Server 2012/2014
Exam 70-462: Administering Microsoft SQL Server 2012/2014 Databases
Exam 70-463: Implementing a Data Warehouse with Microsoft SQL Server 2012/2014

Microsoft Certified Solutions Associate (MCSA) SQL 2016 Database Development

To earn MCSA certification, pass the following two exams:
Exam 70-761: Querying Data with Transact-SQL
Exam 70-762: Developing SQL Databases

Microsoft Certified Solutions Associate (MCSA) SQL 2016 Database Administration

To earn MCSA certification, pass the following two exams:
Exam 70-764: Administering a SQL Database Infrastructure
Exam 70-765: Provisioning SQL Databases

Microsoft Certified Solutions Associate (MCSA) SQL 2016 BI Development

To earn MCSA certification, pass the following two exams:
Exam 70-767: Implementing a SQL Data Warehouse
Exam 70-768: Developing SQL Data Models

Microsoft Certified Solutions Associate (MCSA) BI Reporting

To earn MCSA certification, pass the following two exams:
Exam 70-778: Analyzing and Visualizing Data with Power BI
Exam 70-779: Analyzing and Visualizing Data with Excel

Microsoft Certified Solutions Expert (MCSE) Data Management and Analytics

To earn the MCSE certification, pass one of the following elective exams. This certification can be renewed every calendar year:
Exam 70-464: Developing Microsoft SQL Server Databases
Exam 70-465: Designing Database Solutions for SQL Server
Exam 70-466: Implementing Data Models and Reports with Microsoft SQL Server
Exam 70-467: Designing Business Intelligence Solutions with Microsoft SQL Server
Exam 70-473: Designing and Implementing Cloud Data Platform Solutions
Exam 70-475: Designing and Implementing Big Data Analytics Solutions
Exam 70-762: Developing SQL Databases
Exam 70-767: Implementing a SQL Data Warehouse
Exam 70-768: Developing SQL Data Models
Exam 70-773: Analyzing Big Data with Microsoft R
Exam 70-774: Perform Cloud Data Science with Azure Machine Learning
Exam 70-775: Perform Data Engineering on Microsoft Azure HDInsight

Microsoft