



Microsoft Azure training and certifications

aka.ms/AzureTrainCertDeck

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This guide has been created to provide training and certification options to achieve personal success.

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Certifications

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Welcome to Microsoft Azure training and certifications

Our approach to learning is to develop an inclusive environment for every stage in an individual's career.

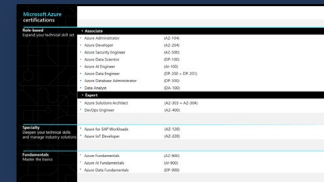
How to use this deck

The following resources will prepare you for the learning experience.



Training journey

Recommended tracks to help you identify where to start your training and where to go based on your role or projects..



Certification portfolio

Available certifications and associated exams in portfolio.



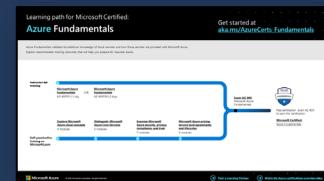
Certification overview

Identify the right candidate profile with the recommended skills, knowledge, and experience.



Certification journey

Recommended steps to earn a certification, including preparation resources and opportunities for continue learning.



Certification learning path

Recommended training content to prepare for certification exams, including self-paced training and Microsoft Official Courseware (MOC) delivered by Learning Partners.

Azure training journey for IT pros

Master the basics


New to the cloud or new to Azure

 Azure Fundamentals

Grow in role

 Start here


Implement, manage, and monitor cloud solutions

 Azure Administrator Associate

Implement and manage secure cloud solutions

 Azure Security Engineer Associate


Design and implement end-to-end cloud solutions

 Azure Solutions Architect Expert


Implement and manage networking solutions

 Azure Network Engineer Associate


Manage SAP solutions on Azure

 Azure for SAP Workloads Specialty

Deliver continuous value, integrating people, processes, and technologies

 DevOps Engineer Expert

Bring cloud agility on-premises

 Azure Stack Hub Operator Associate

Deliver virtual desktop experiences and remote apps on Azure

 Azure Virtual Desktop Specialty

Continue to grow with additional training

Migrate apps and infrastructure to the cloud


Manage Windows Server and hybrid cloud solutions

Manage Linux on Azure


Azure training journey for developers

Master the basics


New to the cloud or new to Azure

 Azure Fundamentals

New to data solutions on Azure

 Azure Data Fundamentals


New to AI or new to AI on Azure

 Azure AI Fundamentals

Grow in role

 **Start here**


Design, build, test, and maintain cloud apps

 Azure Developer Associate


Deliver continuous value integrating people, processes, and technologies

 DevOps Engineer Expert


Develop cloud and edge IoT solutions

 Azure IoT Developer Specialty

Build, manage, and deploy AI solutions

 Azure AI Engineer Associate

Design and implement end-to-end cloud solutions

 Azure Solutions Architect Expert


Continue to grow with additional training

Migrate data to the cloud


Azure training journey for data & AI pros

Master the basics


New to the cloud or new to Azure

 Azure Fundamentals

New to data solutions on Azure

 Azure Data Fundamentals

New to AI or new to AI on Azure


 Azure AI Fundamentals

Grow in role



Start here

Manage relational cloud and hybrid databases

 Azure Database Administrator Associate


Get structured and unstructured data ready for analytics

 Azure Data Engineer Associate




Start here

Build, manage, and deploy AI solutions

 Azure AI Engineer Associate

Build, train, and deploy machine learning models

 Azure Data Scientist Associate



Start here

Get insights from data assets

 Data Analyst Associate

Continue to grow with additional training

Migrate data to the cloud



Continue your **Azure** training journey

IT Pros

Migrate apps and infrastructure to the cloud

Migrating Application Workloads to Azure – Course WS-050T00

Microsoft Learn learning paths

Manage Linux on Azure

Microsoft Learn learning paths

Manage Windows Server and hybrid cloud solutions

Windows Server 2019 Administration – Course WS-011T00

Windows Server 2019 Hybrid and Azure IaaS – Course WS-012T00

Azure Stack HCI – Course WS-013T00

Microsoft Learn learning paths

Developers and Data & AI Pros

Migrate data to the cloud

Migrate SQL workloads to Azure – Course DP-050T00

Migrate NoSQL workloads to Azure Cosmos DB – Course DP-060T00

Migrate Open Source Data Workloads to Azure – Course DP-070T00

Microsoft Learn learning paths

Microsoft Azure Virtual Training Days

Grow your skills in just days

Take advantage of free, in-depth, virtual training events, and start boosting your career potential right away. Grow your technical skills through weekly events for every skill level.

Azure Fundamentals

Azure Data Fundamentals

Migrating On-Premises Infrastructure and Data

Linux OSS Database Migration

Deliver Integrated Analytics with Azure Synapse

Azure AI Fundamentals

DevOps with GitHub

Modernize .NET Apps

Implementing Hybrid Infrastructure

Microsoft Azure certifications

Role-based

Expand your technical skill set

▼ Associate

- Azure Administrator (AZ-104)
- Azure Security Engineer (AZ-500)
- Azure Stack Hub Operator (AZ-600)
- Azure Developer (AZ-204)
- Azure Database Administrator (DP-300)
- Azure Data Engineer (DP-203)
- Data Analyst (DA-100)
- Azure AI Engineer (AI-102)
- Azure Data Scientist (DP-100)
- Azure Network Engineer (AZ-700)
- Windows Server Hybrid Administrator (AZ-800 + AZ-801)

▼ Expert

- Azure Solutions Architect (AZ-305)
- DevOps Engineer (AZ-400)

Specialty

Deepen your technical skills and manage industry solutions

- Azure for SAP Workloads (AZ-120)
- Azure Virtual Desktop (AZ-140)
- Azure IoT Developer (AZ-220)

Fundamentals

Master the basics

- Azure Fundamentals (AZ-900)
- Azure Data Fundamentals (DP-900)
- Azure AI Fundamentals (AI-900)

Exam details

AZ-900:
[Microsoft Azure Fundamentals](#)

Skills measured:

- Describe cloud concepts
- Describe core Azure services
- Describe security, privacy, compliance, and trust
- Describe Azure pricing Service Level Agreements and Lifecycles

Knowledge and experience:

A candidate for this exam should be able to demonstrate a fundamental knowledge of cloud concepts, as well as Azure services, workloads, security, privacy, pricing, and support. In addition, a candidate should be familiar with concepts of networking, storage, compute, application support, and application development.

Certification

Pass certification exam
AZ-900 to earn this certification



Microsoft Certified:
Azure Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure.

Products featured

- Microsoft Azure

Who is this certification for?

Candidates for this certification should have foundational knowledge of cloud services and how those services are provided with Microsoft Azure.

The journey to Microsoft Certified:

Azure Fundamentals

Get started at
aka.ms/AzureCerts_Fundamentals



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

This certification is a good fit if:

- You are new to the cloud or new to Azure.

AND

- You want to demonstrate a fundamental knowledge of cloud concepts, as well as Azure services, workloads, security, privacy, pricing, and support.

Skills outline guides

- [AZ-900](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course AZ-900T01: Microsoft Azure Fundamentals \(1 Day\)](#)

OR

[Course AZ-900T00: Microsoft Azure Fundamentals \(2 Day\)](#)

Additional resources

- [Microsoft Docs](#)

- [Microsoft Official Practice Test AZ-900](#)

Exam AZ-900
[Microsoft Azure Fundamentals](#)



Microsoft Certified:
Azure Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure.



Microsoft Azure

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[Watch the Azure certifications overview video](#)

Learning path for Microsoft Certified: **Azure Fundamentals**

Get started at
aka.ms/AzureCerts_Fundamentals

Azure Fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Microsoft Azure Fundamentals

AZ-900T01 | 1 day

OR

Microsoft Azure Fundamentals

AZ-900T00 | 2 days

Self-paced online training on Microsoft Learn

Describe core Azure concepts

3 modules

Describe core solutions and management tools on Azure

7 modules

Describe identity, governance, privacy, and compliance features

4 modules

Describe core Azure services

5 modules

Describe general security and network security features

3 modules

Describe Azure cost management and service level agreements

3 modules

Exam AZ-900 Microsoft Azure Fundamentals



Pass certification exam AZ-900 to earn this certification

Microsoft Certified:
Azure Fundamentals

Azure Data Fundamentals

Get started at

aka.ms/AzureCerts_DataFundamentals

Exam details

DP-900:
Microsoft Azure Data Fundamentals

Skills measured:

- Describe core data concepts
- Describe how to work with relational data on Azure
- Describe how to work with non-relational data on Azure
- Describe an analytics workload on Azure

Knowledge and experience:

A candidate for this exam should be familiar with the concepts of relational and non-relational data, and different types of data workloads, such as transactional or analytical.

Certification

Pass certification exam
DP-900 to earn this certification



Microsoft Certified:
Azure Data Fundamentals

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

Products featured

- Microsoft Azure
- Microsoft SQL Server

Who is this certification for?

Candidates for this certification should have foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.



The journey to Microsoft Certified:

Azure Data Fundamentals

Get started at
aka.ms/AzureCerts_DataFundamentals



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if:

- You are beginning to work with data in the cloud.

AND

- You want to demonstrate your knowledge of core data concepts like relational and non-relational data, types of data workloads, like transactional or analytical, and how they are implemented using Azure data services.

Skills outline guides

- [DP-900](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course DP-900T00: Microsoft Azure Data Fundamentals](#)

Additional resources

- [Microsoft Docs](#)

Exam DP-900

[Microsoft Azure Data Fundamentals](#)

Take a practice exam

[Microsoft Official Practice Test DP-900](#)



Microsoft Certified:
Azure Data Fundamentals

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)



Learning path for Microsoft Certified:

Azure Data Fundamentals

Get started at
aka.ms/AzureCerts_DataFundamentals

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

Microsoft Azure Data Fundamentals
DP-900T00 | 1 day

**Explore core
data concepts**
5 modules

**Explore relational
data in Azure**
3 modules

**Explore non-relational
data in Azure**
3 modules

**Explore modern data
warehouse analytics
in Azure**
4 modules

Exam DP-900
Microsoft Azure
Data Fundamentals



Pass certification exam DP-900
to earn this certification

Microsoft Certified:
Azure Data Fundamentals

Self-paced online
training on
Microsoft Learn

Azure AI Fundamentals

Get started at

aka.ms/AzureCerts_AIFundamentals

Exam details

AI-900:
Microsoft Azure AI Fundamentals

Skills measured:

- Describe AI workloads and considerations
- Describe fundamental principles of machine learning on Azure
- Describe features of computer vision workloads on Azure
- Describe features of natural language processing (NLP) workloads on Azure
- Describe features of conversational AI workloads on Azure

Knowledge and experience:

A candidate for this exam should have knowledge of common machine learning and AI workloads and how to implement them on Azure.

Certification

Pass certification exam **AI-900** to earn this certification



Microsoft Certified:
Azure AI Fundamentals

Azure AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services.

Products featured

- Microsoft Azure

Who is this certification for?

Candidates for this certification should have foundational knowledge of machine learning and AI concepts and related Microsoft Azure services.

This certification is intended for candidates with both technical and non-technical backgrounds. Data science and software engineering experience are not required; however, some general programming knowledge or experience would be beneficial.



The journey to Microsoft Certified:

Azure AI Fundamentals

Get started at
aka.ms/AzureCerts_AIFundamentals



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if:

- You are new to AI or AI on Azure.

AND

- You want to demonstrate your knowledge of common machine learning and AI workloads and how to implement them on Azure.

Skills outline guide

- [AI-900](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course AI-900T00: Microsoft Azure AI Fundamentals](#)

Additional resources

- [Microsoft Docs](#)

Exam AI-900

[Microsoft Azure AI Fundamentals](#)

Take a practice exam

[Microsoft Official Practice Test AI-900](#)



Microsoft Certified:
Azure AI Fundamentals

Azure AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services.

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)



Learning path for Microsoft Certified:

Azure AI Fundamentals

Get started at
aka.ms/AzureCerts_AIFundamentals

Azure AI Fundamentals validates foundational knowledge of machine learning and AI concepts and related Microsoft Azure services. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Azure AI Fundamentals

AI-900T00 | 1 day

Self-paced online training on Microsoft Learn

Get started with artificial intelligence on Azure

1 module

Explore computer vision in Microsoft Azure

6 modules

Explore conversational AI

1 module

Create no-code predictive models with Azure Machine Learning

4 modules

Explore natural language processing

4 modules

Exam AI-900

Microsoft Azure AI Fundamentals



Pass certification exam AI-900 to earn this certification

Microsoft Certified:
Azure AI Fundamentals

Azure Administrator Associate

Get started at
aka.ms/AzureCerts_Admin

Exam details

AZ-104:
Microsoft Azure Administrator

Skills measured:

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Configure and manage virtual networking
- Monitor and back up Azure resources

Knowledge and experience:

A candidate for this exam should have at least six months of hands-on experience administering Azure, along with a strong understanding of core Azure services, Azure workloads, security, and governance. In addition, this role should have experience using PowerShell, Azure CLI, Azure portal, and Azure Resource Manager templates.

Certification

Pass certification exam
AZ-104 to earn this certification



Microsoft Certified:
Azure Administrator Associate

Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment.

Products featured

- Microsoft Azure

Who is this certification for?

Candidates for this certification should have subject matter expertise implementing, managing, and monitoring an organization's Microsoft Azure environment.

Responsibilities for this role include implementing, managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment, plus provision, size, monitor, and adjust resources, when needed.

The journey to Microsoft Certified:

Azure Administrator Associate

Get started at
aka.ms/AzureCerts_Admin



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Implementing, managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment.
- Provisioning, sizing, monitoring, and adjusting resources when needed.

OR

If you already have or were working toward any of these certifications:

- MCSE: Core Infrastructure
- MCSA: Windows Server 2012
- MCSA: Windows Server 2016

Brand new? First, master the basics.

New to the cloud or Azure?

Choose [Azure Fundamentals training](#).

New to administering Azure?

Choose [Prerequisites for Azure administrators](#).

Skills outline guide

- [AZ-104](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course AZ-104T00: Microsoft Azure Administrator](#)

OR

[Course AZ-010T00: Azure Administrator for AWS SysOps](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)
- [Microsoft Azure Well-Architected Framework](#)

- [Microsoft Official Practice Test AZ-104](#)

Exam AZ-104

[Microsoft Azure Administrator](#)



Microsoft Certified:
Azure Administrator Associate

Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment.

Explore these resources next

Self-paced online learning

- [Migrate application workloads and data to Azure](#)
- [Automate your deployments with Azure DevOps](#)

Instructor-led training

- [Course WS-050T00: Migrating Application Workloads to Azure](#)
- [Course WS-011T00: Windows Server 2019 Administration](#)
- [Course WS-012T00: Windows Server 2019 Hybrid and Azure IaaS](#)
- [Course WS-013T00: Azure Stack HCI](#)



Microsoft Azure

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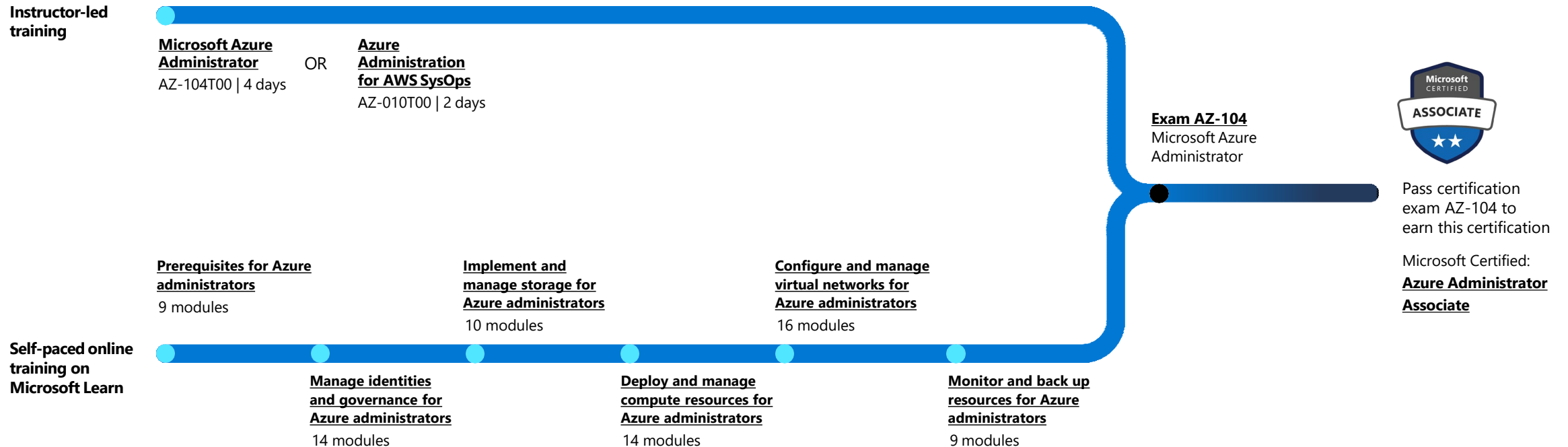


[Watch the Azure certifications overview video](#)

Learning path for Microsoft Certified: **Azure Administrator Associate**

Get started at
aka.ms/AzureCerts_Admin

Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment.
Explore recommended training resources that will help you prepare for required exams.



Azure Security Engineer Associate

Get started at

aka.ms/AzureCerts_SecurityEngineer

Who is this certification for?

Candidates for this certification should have subject matter expertise implementing security controls and threat protection, managing identity and access, and protecting data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

Responsibilities for this role include maintaining the security posture, identifying and remediating vulnerabilities by using a variety of security tools, implementing threat protection, and responding to security incident escalations.

Exam details

AZ-500:
Microsoft Azure Security Technologies

Skills measured:

- Manage identity and access
- Implement platform protection
- Manage security operations
- Secure data and applications

Knowledge and experience:

A candidate for this exam should have strong skills in scripting and automation; a deep understanding of networking, virtualization, and cloud N-tier architecture; and a strong familiarity with cloud capabilities and products and services for Azure, plus other Microsoft products and services.

Certification

Pass certification exam **AZ-500** to earn this certification



Microsoft Certified:
Azure Security Engineer Associate

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Security Engineer Associate

Get started at
aka.ms/AzureCerts_SecurityEngineer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Maintaining security posture.
- Identifying and remediating vulnerabilities by using a variety of security tools.
- Implementing threat protection.
- Responding to security incident escalations.

Skills outline guide

- [AZ-500](#)



Self-paced online learning [Microsoft Learn](#)



Instructor-led training [Course AZ-500T00: Microsoft Azure Security Technologies](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

- [Microsoft Official Practice Test AZ-500](#)

Exam AZ-500 [Microsoft Azure Security Technologies](#)



Microsoft Certified:
Azure Security Engineer Associate

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

Explore this resource next

- [Microsoft Azure Well-Architected Framework](#)

First, make sure your skills are up to date.

Need to update your skills in Azure administration?

[Azure Administrator training on Microsoft Learn.](#)



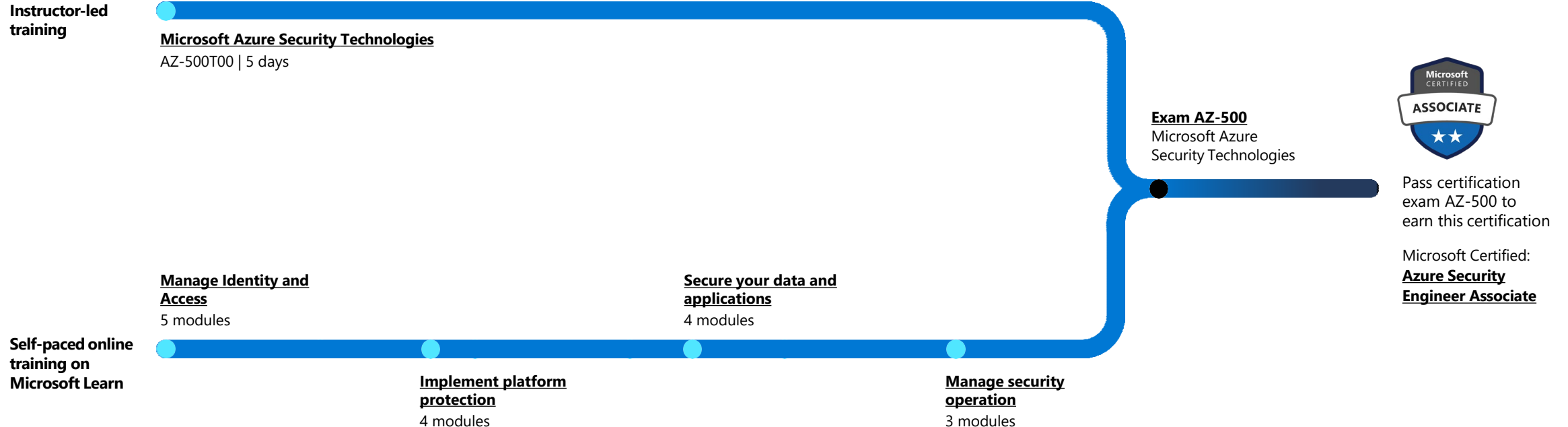
Learning path for Microsoft Certified:

Azure Security Engineer Associate

Get started at

aka.ms/AzureCerts_SecurityEngineer

Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure. Explore recommended training resources that will help you prepare for required exams.



Azure Stack Hub Operator Associate

Get started at

aka.ms/AzureCerts StackHubOperator

Who is this certification for?

Candidates for this certification are Azure administrators or Azure Stack Hub operators who provide cloud services to end users or customers from within their own datacenter using Azure Stack Hub.

Responsibilities include planning, deploying, packaging, updating, and maintaining the Azure Stack Hub infrastructure. They also offer hybrid cloud resources and requested services and manage infrastructure as a service (IaaS) and platform as a service (PaaS).

Exam details

AZ-600:

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

Skills measured:

- Provide services
- Implement data center integration
- Manage identity and access
- Manage infrastructure

Knowledge and experience:

A candidate for this exam should have significant experience managing and operating Azure Stack Hub environments. They should have a strong understanding of Azure, in addition to some knowledge of virtualization, networking, and identity management. They need to understand how Azure Stack Hub enables DevOps processes and the hybrid development model.

Certification

Pass certification exam **AZ-600** to earn this certification



Microsoft Certified:
Azure Stack Hub Operator Associate

Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Stack Hub Operator Associate

Get started at
aka.ms/AzureCerts_StackHubOperator



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if your responsibilities include:

- Plan, deploy, package, update, and maintain the Azure Stack Hub infrastructure.
- Offer hybrid cloud resources and requested services and manage infrastructure as a service (IaaS) and platform as a service (PaaS).

Skills outline guide

- [AZ-600](#)



Self-paced online learning
[Microsoft Learn](#)



Instructor-led training
[Course AZ-600T00: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub](#)

Additional resources

- [Microsoft Docs](#)

Exam AZ-600

[Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub](#)



Microsoft Certified:
[Azure Stack Hub Operator Associate](#)

Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

First, make sure your skills are up to date.

[Need to update your skills in Azure administration?](#)

[Azure Administrator training on Microsoft Learn.](#)



Learning path for Microsoft Certified:

Azure Stack Hub Operator Associate

Get started at

aka.ms/AzureCerts StackHubOperator

Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub.

Instructor-led Training

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

AZ-600T00 | 4 days

Overview of Azure Stack Hub

3 modules

Provide services for Azure Stack Hub

5 modules

Implement Data Center Integration for Azure Stack Hub

3 modules

Manage Identity and Access for Azure Stack Hub

2 modules

Manage Infrastructure for Azure Stack Hub

6 modules

Self-paced online training on Microsoft Learn

Exam AZ-600

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub



Pass certification exam **AZ-600** to earn this certification

Microsoft Certified:
Azure Stack Hub Operator Associate

Azure Network Engineer Associate

Get started at

aka.ms/AzureCerts_NetworkEngineer

Who is this certification for?

Candidates for this certification plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services.

Responsibilities for this role include managing networking solutions for performance, resiliency, scale, and security. They deploy networking solutions by using the Azure Portal and other methods, including PowerShell, Azure Command-Line Interface (CLI), and Azure Resource Manager templates (ARM templates).

Exam details

AZ-700:
Designing and Implementing Microsoft Azure Networking Solutions

Skills measured:

- Design, implement, and manage hybrid networking
- Design and implement core networking infrastructure
- Design and implement routing
- Secure and monitor networks
- Design and implement private access to Azure services

Knowledge and experience:

Candidates for this exam should have expert Azure administration skills, in addition to extensive experience and knowledge of networking, hybrid connections, and network security.

Certification

Pass certification exam **AZ-700** to earn this certification



Microsoft Certified:
Azure Network Engineer Associate

Azure Network Engineers plan, implement, and maintain Azure networking solutions.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Network Engineer Associate

Get started at
aka.ms/AzureCerts_NetworkEngineer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Managing networking solutions for performance, resiliency, scale, and security.
- Deploying networking solutions by using the Azure Portal and other methods, including PowerShell, Azure Command-Line Interface (CLI), and Azure Resource Manager templates (ARM templates).

Skills outline guide

- [AZ-700](#)



Self-paced online learning
[Microsoft Learn](#)



Instructor-led training
[Course AZ-700T00: Designing and Implementing Microsoft Azure Networking Solutions](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

Exam AZ-700
[Designing and Implementing Microsoft Azure Networking Solutions](#)



Microsoft Certified:
Azure Network Engineer Associate

Azure Network Engineers plan, implement, and maintain Azure networking solutions.

Explore this resource next

- [Microsoft Azure Well-Architected Framework](#)

First, make sure your skills are up to date.

Need to update your skills in Azure administration?

[Azure Administrator training on Microsoft Learn.](#)



Learning path for Microsoft Certified:

Azure Network Engineer Associate

Get started at

aka.ms/AzureCerts_NetworkEngineer

Azure Network Engineers plan, implement, and maintain Azure networking solutions. Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

**Designing and Implementing
Microsoft Azure Networking Solutions**

AZ-700T00 | 3 days

**Designing and
Implementing Microsoft
Azure Networking Solutions**

8 modules

Self-paced online
training on
Microsoft Learn

Exam AZ-700

Designing and Implementing
Microsoft Azure Networking
Solutions



Pass certification
Exam AZ-700 to
earn this certification

Microsoft Certified:
**Azure Network
Engineer Associate**

Windows Server Hybrid Administrator Associate

Get started at
aka.ms/AzureCerts_WindowsServer

Who is this certification for?

Candidates for this certification should have subject matter expertise in configuring and managing Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads. They should have extensive experience working with Windows Server operating systems.

Responsibilities include integrating Windows Server environments with Azure services and managing Windows Server in on-premises networks.

Exam details

AZ-800:
Administering Windows Server Hybrid Core Infrastructure

Skills measured:

- Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments
- Manage Windows Servers and workloads in a hybrid environment
- Manage virtual machines and containers
- Implement and manage an on-premises and hybrid networking infrastructure
- Manage storage and file services

Knowledge and experience:

A candidate for this exam administers core Windows Server workloads using on-premises, hybrid, and cloud technologies. They should have expertise in implementing and managing on-premises and hybrid solutions, such as identity, management, compute, networking, and storage.

AZ-801:
Configuring Windows Server Hybrid Advanced Services

Skills measured:

- Secure Windows Server on-premises and hybrid infrastructures
- Implement and manage Windows Server high availability
- Implement disaster recovery
- Migrate servers and workloads
- Monitor and troubleshoot Windows Server environments

Knowledge and experience:

A candidate for this exam configures advanced Windows Server services using on-premises, hybrid, and cloud technologies. They should have expertise in performing tasks related to security, migration, monitoring, high availability, troubleshooting, and disaster recovery.

Certification

Pass certification exams **AZ-800** and **AZ-801** to earn this certification



Microsoft Certified:
Windows Server Hybrid Administrator Associate

Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.

Products featured

- Windows Server
- Microsoft Azure



The journey to Microsoft Certified:

Windows Server Hybrid Administrator Associate

Get started at
aka.ms/AzureCerts_WindowsServer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exams to earn your certification

This certification is a good fit if your responsibilities include:

- Integrating Windows Server environments with Azure services and managing Windows Server in on-premises networks.
- Managing and maintaining Windows Server IaaS workloads in Azure, in addition to migrating and deploying workloads to Azure.
- Administering core and advanced Windows Server workloads and services using on-premises, hybrid, and cloud technologies.

OR

If you already have or were working toward any of these certifications:

- MCSE: Core Infrastructure
- MCSA: Windows Server 2012
- MCSA: Windows Server 2016

Skills outline guide

- [AZ-800](#)
- [AZ-801](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

Course AZ-800T00
Administering Windows
Server Hybrid Core
Infrastructure

+

Course AZ-801T00 Configuring
Windows Server Hybrid
Advanced Services

Additional resources

- [Microsoft Docs](#)



Microsoft Certified:
**Windows Server Hybrid
Administrator Associate**

Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.

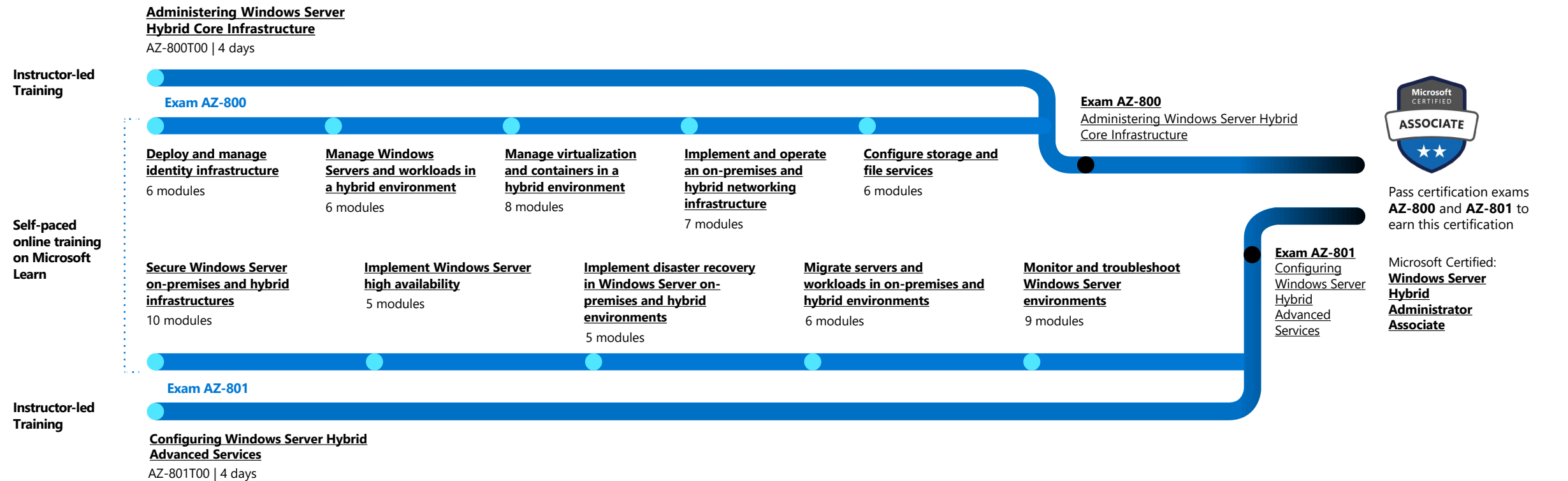


Learning path for Microsoft Certified:

Windows Server Hybrid Administrator Associate

Get started at
aka.ms/AzureCerts_WindowsServer

Windows Server Hybrid Administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads.



Azure Solutions Architect Expert

Get started at
aka.ms/AzureCerts_SolutionsArchitect

Exam details

Who is this certification for?

Candidates for this certification should have subject matter expertise in designing and implementing solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

Responsibilities for this role include advising stakeholders and translating business requirements into secure, scalable, and reliable cloud solutions.

AZ-305:
Designing Microsoft Azure Infrastructure Solutions (beta)

Skills measured:

- Design identity, governance, and monitoring solutions
- Design data storage solutions
- Design business continuity solutions
- Design infrastructure solutions

Knowledge and experience:

A candidate for this exam should have expertise implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback. Additionally, a candidate must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Certification

Pass certification exam **AZ-305** to earn this certification



Microsoft Certified:
Azure Solutions Architect Expert

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Solutions Architect Expert

Get started at
aka.ms/AzureCerts_SolutionsArchitect



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exams to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Advising stakeholders and translating business requirements into secure, scalable, and reliable cloud solutions.

First, make sure your skills are up to date.

Need to update your skills in Azure administration?

[Choose Azure Administrator training.](#)

Need to update your skills in Azure security?

[Choose Azure Security Engineer training.](#)

Need to update your skills in Azure development?

[Choose Azure Developer training.](#)

Skills outline guide

- [AZ-305](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course AZ-305T00 Designing Microsoft Azure Infrastructure Solutions](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

Exam AZ-305

Designing Microsoft Azure Infrastructure Solutions (beta)



Microsoft Certified:
Azure Solutions Architect Expert

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.

Explore these resources next

- [Microsoft Azure Well-Architected Framework](#)
- [Microsoft Cloud Adoption Framework for Azure](#)



Learning path for Microsoft Certified:

Azure Solutions Architect Expert

Get started at
aka.ms/AzureCerts_SolutionsArchitect

Azure Solutions Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

Designing Microsoft Azure Infrastructure Solutions

AZ-305T00 | 4 days

Design identity,
governance, and
monitor solutions
3 modules

Design business
continuity solutions
2 modules

Design data storage
solutions
3 modules

Design infrastructure
solutions
4 modules

Build great solutions
with the Microsoft
Azure Well-Architected
Framework
6 modules

Accelerate cloud
adoption with the
Microsoft Cloud
Adoption Framework
for Azure
8 modules

Exam AZ-305

Designing Microsoft Azure
Infrastructure Solutions (beta)



Pass certification exams
AZ-305 to earn this
certification

Microsoft Certified:
**Azure Solutions
Architect Expert**

Self-paced online
training on
Microsoft Learn

Azure for SAP Workloads Specialty

Get started at

aka.ms/AzureCerts_SAPWorkloads

Exam details

AZ-120:

Planning and Administering Microsoft Azure for SAP Workloads

Skills measured:

- Migrate SAP Workloads to Azure
- Design an Azure Solution to Support SAP Workloads
- Build and Deploy Azure for SAP Workloads
- Validate Azure Infrastructure for SAP Workloads
- Operationalize Azure SAP Architecture

Knowledge and experience:

A candidate for this exam should have extensive experience and knowledge of SAP applications: SAP HANA, S/4HANA, SAP NetWeaver, SAP BW/4HANA, OS servers for SAP applications and databases, Azure portal, Azure Resource Manager templates, operating systems, virtualization, cloud infrastructure, storage structures, high availability design, disaster recovery design, data protection concepts, and networking.

Certification

Pass certification exam **AZ-120** to earn this certification



Microsoft Certified:
Azure for SAP Workloads Specialty

Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure.

Products featured

- Microsoft Azure

Who is this certification for?

Candidates for this certification should be architects or engineers with extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure.

Responsibilities for this role include making recommendations on services and adjusting resources as appropriate for optimal resiliency, performance, scale, provision, size, and monitoring.



The journey to Microsoft Certified:

Azure for SAP Workloads Specialty

Get started at
aka.ms/AzureCerts_SAPWorkloads



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if your responsibilities include:

- Making recommendations on services and adjusting resources as appropriate for optimal resiliency, performance, scale, provision, size, and monitoring of Azure for SAP Workloads.

First, make sure your skills are up to date.

Need to update your skills in Azure administration?

[Choose Azure Administrator training on Microsoft Learn.](#)

Need to update your skills in Azure architecture?

[Choose Azure Solutions Architect training on Microsoft Learn.](#)

Skills outline guide

- [AZ-120](#)



Self-paced online learning [Microsoft Learn](#)



Instructor-led training Course AZ-120T00: [Planning and Administering Microsoft Azure for SAP Workloads](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

Exam AZ-120

[Planning and Administering Microsoft Azure for SAP Workloads](#)



Microsoft Certified:
Azure for SAP Workloads Specialty

Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure.



Learning path for Microsoft Certified:

Azure for SAP Workloads Specialty

Get started at

aka.ms/AzureCerts_SAPWorkloads

Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the long-term operation of an SAP solution on Microsoft Azure. Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Planning and Administering Microsoft Azure for SAP Workloads

AZ-120T00 | 4 days

Explore Azure for SAP workloads

5 modules

Explore the foundations of identity and governance for SAP on Azure

3 modules

Ensure business continuity and implement disaster recovery for SAP solutions on Azure

3 modules

Monitor and troubleshoot Azure for SAP workloads

3 modules

Exam AZ-120

Planning and Administering Microsoft Azure for SAP Workloads



Pass certification exam AZ-120 to earn this certification

Microsoft Certified:
Azure for SAP Workloads Specialty

Self-paced online training on Microsoft Learn

Explore the foundations of IaaS for SAP on Azure

4 modules

Deploy SAP on Azure

2 modules

Migrate SAP workloads to Azure

3 modules

Explore SAP HANA on Azure (Large Instances)

9 modules

Azure Virtual Desktop Specialty

Get started at

aka.ms/AzureCerts_VirtualDesktop

Who is this certification for?

Candidates for the Azure Virtual Desktop Specialty certification are administrators with subject matter expertise in planning, delivering, and managing virtual desktop experiences and remote apps, for any device, on Azure.

Responsibilities for this role include deploying virtual desktop experiences and apps to Azure. These professionals deliver applications on Azure Virtual Desktop and optimize them to run in multi-session virtual environments. To deliver these experiences, they work closely with Azure administrators and architects, along with Microsoft 365 administrators.

Exam details

AZ-140:
Configuring and Operating Microsoft Azure Virtual Desktop

Skills measured:

- Plan an Azure Virtual Desktop architecture
- Implement an Azure Virtual Desktop infrastructure
- Manage access and security
- Manage user environments and apps
- Monitor and maintain an Azure Virtual Desktop infrastructure

Knowledge and experience:

Candidates for this certification should have experience in Azure technologies, including virtualization, networking, identity, storage, backups, resilience, and disaster recovery. They should understand on-premises virtual desktop infrastructure technologies as they relate to migrating to Azure Virtual Desktop. These professionals use the Azure portal and Azure Resource Manager templates to accomplish many of their tasks. They might use PowerShell and Azure CLI for more efficient automation.

Certification

Pass certification exam **AZ-140** to earn this certification



Microsoft Certified:
Azure Virtual Desktop Specialty

Administrators for Azure Virtual Desktop plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Virtual Desktop Specialty

Get started at
aka.ms/AzureCerts_VirtualDesktop



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if your responsibilities include:

- Deploying virtual desktop experiences and apps to Azure.
- Delivering applications on Azure Virtual Desktop and optimizing them to run in multi-session virtual environments.

Skills outline guide

- [AZ-140](#)



Self-paced online learning [Microsoft Learn](#)



Instructor-led training [Course AZ-140T00: Configuring and Operating Microsoft Azure Virtual Desktop](#)

Additional resources

- [Microsoft Docs](#)

Exam AZ-140

[Configuring and Operating Microsoft Azure Virtual Desktop](#)



Microsoft Certified:
[Azure Virtual Desktop Specialty](#)

Administrators for Azure Virtual Desktop plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure.

First, make sure your skills are up to date.

[Need to update your skills in Azure administration?](#)

[Azure Administrator training on Microsoft Learn.](#)



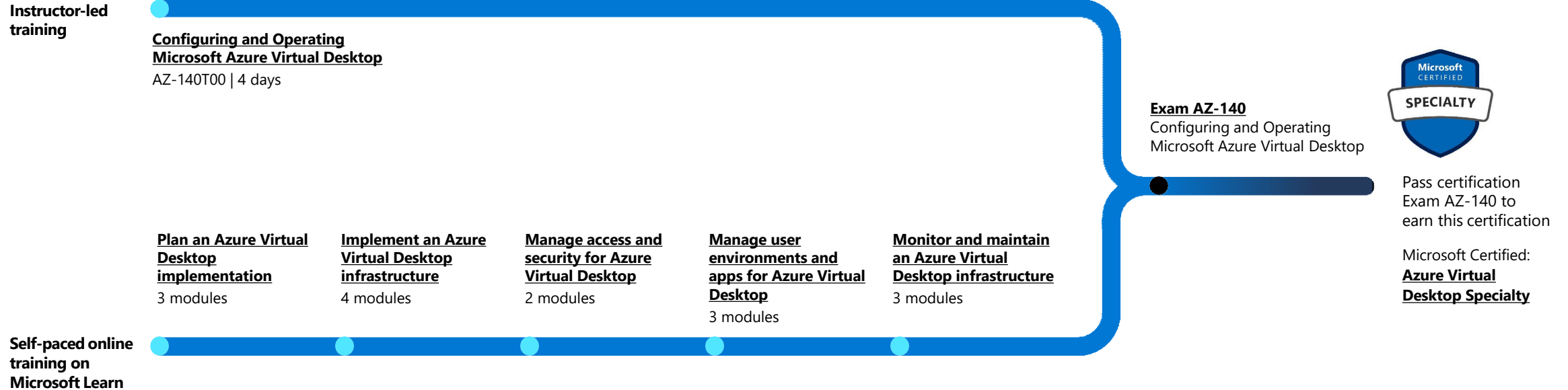
Learning path for Microsoft Certified:

Azure Virtual Desktop Specialty

Get started at

aka.ms/AzureCerts_VirtualDesktop

Professionals in this role plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure. Explore recommended training resources that will help you prepare for required exams.



Azure Developer Associate

Get started at
aka.ms/AzureCerts_Developer

Exam details

AZ-204:
Developing Solutions for Microsoft Azure

Skills measured:

- Develop Azure compute solutions
- Develop for Azure storage
- Implement Azure security
- Monitor, troubleshoot, and optimize Azure solutions
- Connect to and consume Azure services and third-party services

Knowledge and experience:

A candidate for this exam should have one to two years of professional development experience and experience with Microsoft Azure. In addition, they should have the ability to program in a language supported by Azure, plus proficiency in Azure SDKs, Azure PowerShell, and Azure CLI. They should also be proficient in data storage options, data connections, APIs, app authentication and authorization, compute and container deployment, debugging, performance tuning, and monitoring.

Certification

Pass certification exam
AZ-204 to earn this certification



Microsoft Certified:
Azure Developer Associate

Azure Developers design, build, test, and maintain cloud applications and services.

Products featured

- Microsoft Azure

Who is this certification for?

Candidates for this certification should have subject matter expertise designing, building, testing, and maintaining cloud applications and services on Microsoft Azure.

Responsibilities for this role include participating in all phases of cloud development, from requirements definition and design to development, deployment, maintenance, performance tuning, and monitoring.



The journey to Microsoft Certified:

Azure Developer Associate

Get started at
aka.ms/AzureCerts_Developer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Participating in all phases of cloud development: requirements definition and design, development, deployment, maintenance, performance tuning, and monitoring.

OR

If you already have or are working toward any of these certifications:

- MCSD: App Builder
- MCSA: Web Applications
- MCSA: Universal Windows Platform

Brand new? First, master the basics.

New to the cloud or Azure?

Choose Azure Fundamentals training.

Skills outline guide

- [AZ-204](#)



Self-paced online learning [Microsoft Learn](#)



Instructor-led training [Course AZ-204T00: Developing solutions for Microsoft Azure](#)

OR

[Course AZ-020T00: Microsoft Azure Solutions for AWS Developers](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Developer Guide](#)
- [Azure Architecture Center](#)

- [Microsoft Official Practice Test AZ-204](#)

Exam AZ-204 [Developing Solutions for Microsoft Azure](#)



Microsoft Certified:
Azure Developer Associate

Azure Developers design, build, test, and maintain cloud applications and services.

Explore these resources next

- [Build intelligent apps](#)
- [Build Azure IoT solutions](#)
- [Build applications with Azure DevOps](#)



Learning path for Microsoft Certified: **Azure Developer Associate**

Get started at
aka.ms/AzureCerts_Developer

Azure Developers design, build, test, and maintain cloud applications and services.

Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

**Developing solutions
for Microsoft Azure**

AZ-204T00 | 5 days

OR

**Microsoft Azure solutions
for AWS Developers**

AZ-020T00 | 3 days

Exam AZ-204

Developing
Solutions for
Microsoft Azure



Pass certification exam AZ-204
to earn this certification

Microsoft Certified:
Azure Developer Associate

Self-paced online
training on
Microsoft Learn

**Create serverless
applications**

10 modules

**Store data
in Azure**

5 modules

**Manage resources
in Azure**

6 modules

**Secure your cloud
data in Azure**

7 modules

**Connect your
services together**

4 modules

**Deploy a website
with Azure virtual
machines**

4 modules

**Deploy a website
to Azure with
Azure App Service**

6 modules

DevOps Engineer Expert

Get started at

aka.ms/AzureCerts_DevOpsEngineer

Who is this certification for?

Candidates for this certification should have subject matter expertise working with people, processes, and technologies to continuously deliver business value.

Candidates must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Prerequisite

Certification option 1

- [Azure Administrator Associate](#)

OR

Certification option 2

- [Azure Developer Associate](#)

Exam details

AZ-400:

Designing and Implementing Microsoft DevOps Solutions

Skills measured:

- Develop an instrumentation strategy
- Develop a Site Reliability Engineering (SRE) strategy
- Develop a security and compliance plan
- Manage source control
- Facilitate communication and collaboration
- Define and implement continuous integration
- Define and implement a continuous delivery and release management strategy

Knowledge and experience:

A candidate for this exam should have expertise implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback. Additionally, a candidate must be familiar with both Azure administration and development and must be expert in at least one of these areas.

Certification

Pass certification exam **AZ-400** to earn this certification



Microsoft Certified:
DevOps Engineer Expert

DevOps Engineers work with people, processes, and technologies to continuously deliver business value.

Products featured

- Microsoft Azure



The journey to Microsoft Certified: DevOps Engineer Expert

Get started at
aka.ms/AzureCerts_DevOpsEngineer



Start here

Decide if this is the right certification for you

Earn one prerequisite certification

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Designing and implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback.

Azure Administrator Associate

OR

Azure Developer Associate

Skills outline guide

- [AZ-400](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

Course [AZ-400T00-A: Designing and Implementing Microsoft DevOps solutions](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

- [Microsoft Official Practice Test AZ-400](#)

Exam AZ-400

Designing and Implementing Microsoft DevOps solutions



Microsoft Certified: **DevOps Engineer Expert**

DevOps Engineers work with people, processes, and technologies to continuously deliver business value.

Explore these resources next

- [Microsoft Cloud Adoption Framework for Azure](#)
- [Microsoft Azure Well-Architected Framework](#)



Microsoft Azure

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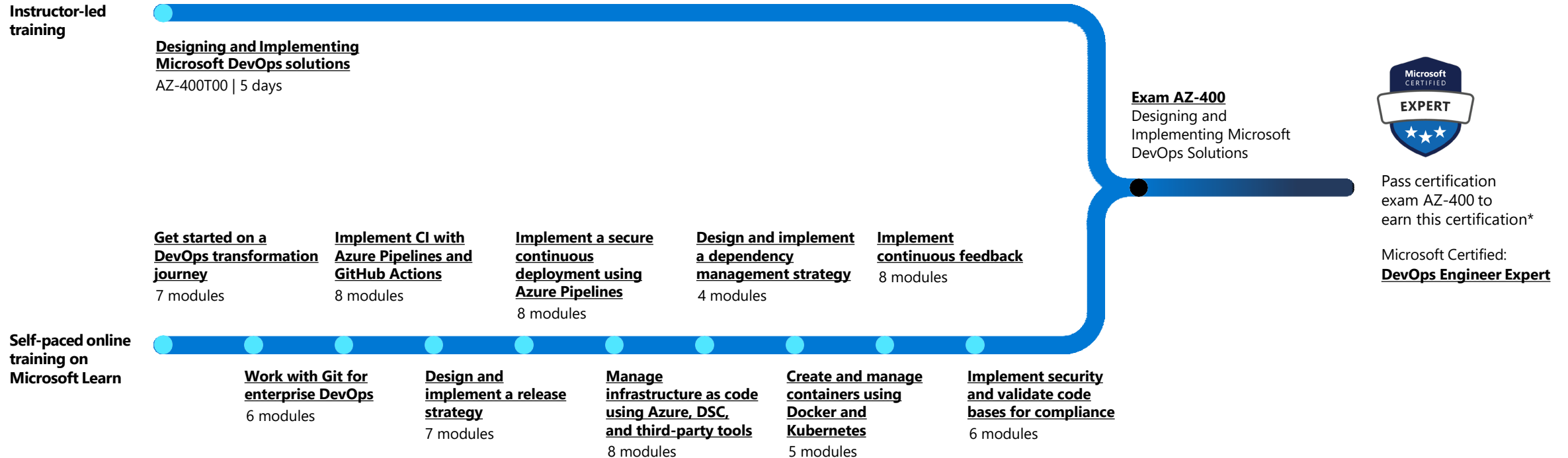


[Watch the Azure certifications overview video](#)

Learning path for Microsoft Certified: DevOps Engineer Expert

Get started at
aka.ms/AzureCerts_DevOpsEngineer

DevOps Engineers work with people, processes, and technologies to continuously deliver business value.
Explore recommended training resources that will help you prepare for required exams.



*As a prerequisite for this certification, earn either the [Azure Administrator Associate](#) or the [Azure Developer Associate](#) certification

Azure IoT Developer Specialty

Get started at
aka.ms/AzureCerts IoTDev

Who is this certification for?

Candidates for this certification should have subject matter expertise creating and maintaining the cloud and edge portions of an Azure IoT solution.

Responsibilities for this role include managing the device lifecycle setup, configuration, and maintenance—using cloud services and other tools, implementing designs for Azure IoT solutions, including device topology, connectivity, debugging, and security, implementing solutions to manage, monitor, and transform IoT-related data pipelines, deploying Azure IoT Edge components, and configuring device networking on the edge.

Exam details

AZ-220:
Microsoft Azure IoT Developer

Skills measured:

- Set up the IoT solution infrastructure
- Provision and manage devices
- Implement Edge
- Implement Business Integration
- Process and manage data
- Monitor, troubleshoot, and optimize IoT solutions
- Implement security

Knowledge and experience:

A candidate for this exam should have general understanding of devices types and Azure services, including data storage options, data analysis, data processing, AI, and other platform as a service (PaaS) options. IoT developers must be able to program in at least one Azure IoT SDK-supported language.

Certification

Pass certification exam
AZ-220 to earn this certification



Microsoft Certified:
Azure IoT Developer Specialty

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure IoT Developer Specialty

Get started at
aka.ms/AzureCerts IoTDev



Start here

Decide if this is the right certification for you

Explore this resource next

Take a practice exam

Pass required exam to
earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Managing the device lifecycle—setup, configuration, and maintenance—using cloud services and other tools.
- Implementing designs for Azure IoT solutions, including device topology, connectivity, debugging, and security, as well as solutions to manage, monitor, and transform IoT-related data pipelines.
- Deploying Azure IoT Edge components and configuring device networking on the edge.

Skills outline guide

- [AZ-220](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course AZ-220T00: Microsoft Azure IoT Developer](#)

Additional resources

- [Channel 9 Internet of Things Show](#)
- [Microsoft Docs](#)
- [Azure Developer Guide](#)
- [Azure Architecture Center](#)

[Microsoft Official Practice Test AZ-220](#)

Exam AZ-220
[Microsoft Azure IoT Developer](#)



Microsoft Certified:
Azure IoT Developer Specialty

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution.

Explore this resource next

- [AI edge engineer learning path](#)

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)



Learning path for Microsoft Certified:

Azure IoT Developer Specialty

Get started at
aka.ms/AzureCerts IoTDev

Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led training

Microsoft Azure IoT Developer
AZ-220T00 | 4 days

Create Azure IoT services in the Azure portal
4 modules

Provision IoT devices at scale by using the Device Provisioning Service
5 modules

Develop data insights and business integrations
5 modules

Develop and deploy custom IoT Edge modules
4 modules

Monitor and troubleshoot an IoT solution by using Azure Monitor
3 modules

Extend IoT solutions by using Azure Digital Twins
4 modules

Exam AZ-220
Microsoft Azure IoT Developer



Pass certification exam AZ-220 to earn this certification

Microsoft Certified:
Azure IoT Developer Specialty

Self-paced online training on Microsoft Learn

Implement IoT device communication by using the Azure IoT SDKs
4 modules

Implement device message processing and data analytics
5 modules

Deploy Azure IoT Edge devices and modules
5 modules

Manage IoT devices by using IoT Hub and apps
5 modules

Enhance IoT solution security by using Azure Defender for IoT
4 modules

Build low touch IoT solutions by using Azure IoT Central
4 modules

Azure Database Administrator Associate

Get started at

aka.ms/AzureCerts_DatabaseAdmin

Exam details

Who is this certification for?

Candidates for this certification should be data management specialists with subject matter expertise implementing and managing cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Responsibilities for this role include database management, availability, and security, plus performance monitoring and optimization of modern relational database solutions.

DP-300:

Administering Relational Databases on Microsoft Azure (beta)

Skills measured:

- Plan and implement data platform resources
- Implement a secure environment
- Monitor and optimize operational resources
- Optimize query performance
- Perform automation of tasks
- Plan and implement a high availability disaster recovery (HADR) environment
- Perform administration by using T-SQL

Knowledge and experience:

A candidate for this exam should have experience using a variety of methods and tools to perform day-to-day operations, including applying knowledge of using T-SQL.

Certification

Pass certification exam
DP-300 to earn this certification



Microsoft Certified:
Azure Database Administrator Associate

Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Products featured

- Microsoft Azure
- Microsoft SQL Server



The journey to Microsoft Certified:

Azure Database Administrator Associate

Get started at

aka.ms/AzureCerts_DatabaseAdmin



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Database management, availability, and security.
- Performance monitoring and optimization of modern relational database solutions.

OR

If you already have or are working toward any of these certifications:

- MCSA: SQL Server 2012/2014
- MCSA: SQL 2016 Database Development
- MCSA: SQL 2016 Database Administration

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)

New to data solutions on Azure?

[Choose Azure Data Fundamentals training](#)

Skills outline guide

- [DP-300](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course DP-300T00](#)
[Administering Relational Databases on Microsoft Azure](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

Exam DP-300

[Administering Relational Databases on Microsoft Azure](#)

Take a practice exam

[Microsoft Official Practice Test DP-300](#)



Microsoft Certified:
Azure Database Administrator Associate

Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services.

Explore these resources next

Self-paced online learning

- [Migrate SQL workloads to Azure](#)

Instructor-led training

- [Course DP-050T00: Migrate SQL workloads to Azure](#)



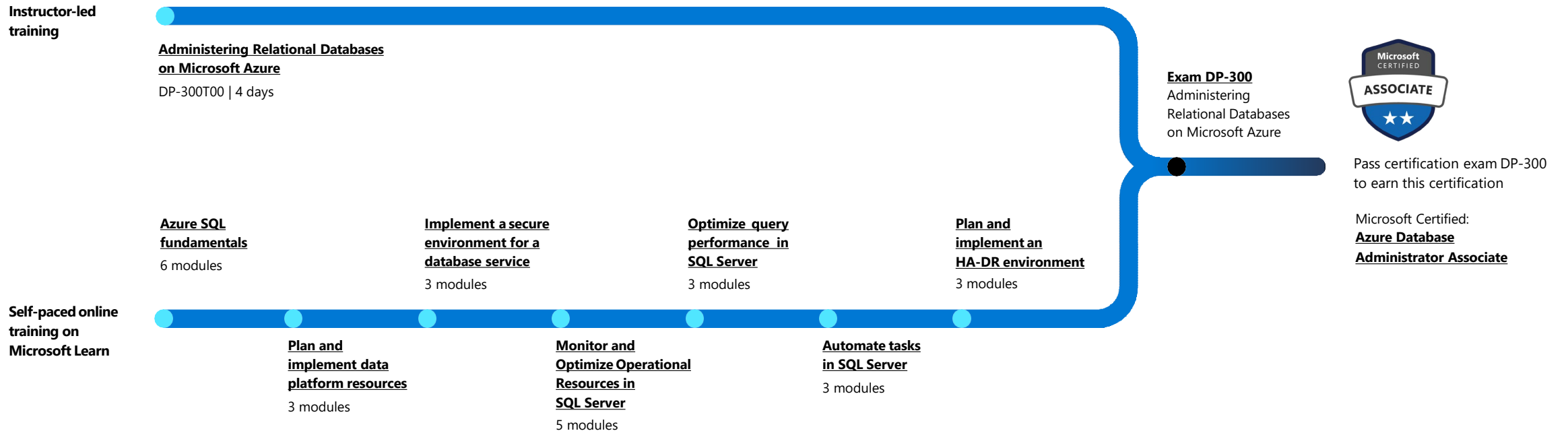
Learning path for Microsoft Certified:

Azure Database Administrator Associate

Get started at

aka.ms/AzureCerts_DatabaseAdmin

Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services. Explore recommended training resources that will help you prepare for required exams.



Azure Data Engineer Associate

Get started at

aka.ms/AzureCerts_DataEngineer

Who is this certification for?

Candidates for this certification have subject matter expertise integrating, transforming, and consolidating data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Responsibilities for this role include helping stakeholders understand the data through exploration, building, and maintaining secure and compliant data processing pipelines by using different tools and techniques. These professionals use various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

Exam details

DP-203:
Data Engineering on Microsoft Azure

Skills measured:

- Design and implement data storage
- Design and develop data processing
- Design and implement data security
- Monitor and optimize data storage and data processing

Knowledge and experience:

Candidates for this exam must have solid knowledge of data processing languages, such as SQL, Python, or Scala, and they need to understand parallel processing and data architecture patterns.

Certification

Pass certification exam **DP-203** to earn this certification



Microsoft Certified:
Azure Data Engineer Associate

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Data Engineer Associate

Get started at
aka.ms/AzureCerts_DataEngineer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exams to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Building and maintaining secure and compliant data processing pipelines by using different tools and techniques.
- Using various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

OR

If you already have or were working toward this certification:

- MCSA: Data Engineering with Azure

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)

New to data solutions on Azure?

[Choose Azure Data Fundamentals training.](#)

Skills outline guides

- [DP-203](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course DP-203T00: Data Engineering on Microsoft Azure](#)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

- [Microsoft Official Practice Test DP-203](#)

Exam DP-203

[Data Engineering on Microsoft Azure](#)



Microsoft Certified: **Azure Data Engineer Associate**

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Explore these resources next

Self-paced online learning

- [Migrate data to Azure](#)

Instructor-led training

- [Course DP-050T00: Migrate SQL workloads to Azure](#)
- [Course DP-060T00: Migrate NoSQL workloads to Azure Cosmos DB](#)
- [Course DP-070T00: Migrate Open Source Data Workloads to Azure](#)



Learning path for Microsoft Certified:

Azure Data Engineer Associate

Get started at
aka.ms/AzureCerts_DataEngineer

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Instructor-led Training

Designing and Implementing a Microsoft Azure AI Solution (coming soon)

DP-203T00 | 4 days

Store data in Azure
5 modules

Integrated Analytical Solutions with Azure Synapse Analytics
4 modules

Build data analytics solutions using Azure Synapse serverless SQL pools
6 modules

Work with Hybrid Transactional and Analytical Processing Solutions
4 modules

Large-Scale Data Processing with Azure Data Lake Storage Gen2
3 modules

DP-203
Data Engineering on Microsoft Azure



Pass certification exam DP-203 to earn this certification

Microsoft Certified:
Azure Data Engineer Associate

Self-paced online training on Microsoft Learn

Azure for the Data Engineer
3 modules

Data integration at scale with Azure Data Factory or Azure Synapse Pipeline
7 modules

Work with Data Warehouses using Azure Synapse Analytics
7 modules

Perform data engineering with Azure Synapse Apache Spark Pools
5 modules

Data engineering with Azure Databricks
15 modules

Implement a Data Streaming Solution with Azure Streaming Analytics
2 modules

Overview of Microsoft Certified: Data Analyst Associate

Get started at
aka.ms/AzureCerts_DataAnalyst

Exam details

DA-100:
Analyzing Data with Microsoft Power BI (beta)

Skills measured:

- Prepare the data
- Model the data
- Visualize the data
- Analyze the data
- Deploy and maintain deliverables

Knowledge and experience:

A candidate for this exam should have a fundamental understanding of data repositories and data processing in the cloud and in on-premises settings. In addition, the role should have knowledge and experience with Power BI.

Certification

Pass certification exam **DA-100** to earn this certification



Microsoft Certified:
Data Analyst Associate

Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI.

Products featured

- Microsoft Power BI

Who is this certification for?

Candidates for this certification should have subject matter expertise helping businesses to maximize the value of their data assets using Microsoft Power BI.

Responsibilities for this role include designing and building scalable data models, cleaning and transforming data, and enabling advanced analytics capabilities that provide meaningful business value through easy-to-understand data visualizations.

The journey to Microsoft Certified: Data Analyst Associate

Get started at
aka.ms/AzureCerts_DataAnalyst



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if your responsibilities include:

- Designing and building scalable data models.
- Cleaning and transforming data.
- Enabling advanced analytics capabilities that provide meaningful business value through easy-to-understand data visualizations.

OR

If you already have or are working toward any of these certifications:

- MCSA: BI Reporting
- MCSA: SQL 2016 BI Development

First, make sure your skills are up to date.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)

New to data solutions on Azure?

[Choose Azure Data Fundamentals training.](#)

Need to update your skills on Microsoft Power Platform?

[Choose Power Platform Fundamentals training.](#)

Skills outline guides

- [DA-100](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

[Course DA-100T00: Analyzing Data with Microsoft Power BI](#)

Additional resources

- [Microsoft Docs](#)

Exam DA-100

[Analyzing Data with Microsoft Power BI](#)

Take a practice exam

[Microsoft Official Practice Test DA-100](#)



Microsoft Certified:
Data Analyst Associate

Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI.



Learning path for Microsoft Certified: Data Analyst Associate

Get started at
aka.ms/AzureCerts_DataAnalyst

Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

Analyzing Data with Microsoft Power BI
DA-100T00 | 4 days

Self-paced online
training on
Microsoft Learn

**Get started with
Microsoft data
analytics**
2 modules

**Prepare data
for analysis**
2 modules

**Model data
in Power BI**
3 modules

**Visualize data
in Power BI**
4 modules

**Data analysis
in Power BI**
2 modules

**Manage
workspaces
and datasets
in Power BI**
3 modules

Exam DA-100
Analyzing Data with
Microsoft Power BI



Pass certification exam DA-100
to earn this certification

Microsoft Certified:
Data Analyst Associate

Azure Cosmos DB Developer Specialty

Get started at

aka.ms/AzureCerts_CosmosDBDeveloper

Who is this certification for?

Candidates for this certification should have subject matter expertise in designing, implementing, and monitoring cloud-native applications that store and manage data.

Responsibilities include designing and implementing data models and data distribution, loading data into an Azure Cosmos DB database, and optimizing and maintaining the solution. These professionals integrate the solution with other Azure services. They also design, implement, and monitor solutions that consider security, availability, resilience, and performance requirements.

Exam details

Exam DP-420:

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

Skills measured:

- Design and implement data models
- Design and implement data distribution
- Integrate an Azure Cosmos DB solution
- Optimize an Azure Cosmos DB solution
- Maintain an Azure Cosmos DB solution

Knowledge and experience:

A candidate for this exam must have solid knowledge and experience developing apps for Azure and working with Azure Cosmos DB database technologies. They should be proficient at developing applications by using the Core (SQL) API and SDKs, writing efficient queries and creating appropriate index policies, provisioning and managing resources in Azure, and creating server-side objects with JavaScript. They should be able to interpret JSON, read C# or Java code, and use PowerShell.

Certification

Pass certification exam **DP-420** to earn this certification



Microsoft Certified:
**Azure Cosmos DB
Developer Specialty**

Azure Cosmos DB Developers design, implement, and monitor cloud-native applications that store and manage data.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Cosmos DB Developer Specialty

Get started at
aka.ms/AzureCerts_CosmosDBDeveloper



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exam to earn your certification

This certification is a good fit if your responsibilities include:

- Designing and implementing data models and data distribution.
- Loading data into an Azure Cosmos DB database.
- Optimizing and maintaining the solution.
- Integrating the solution with other Azure services.
- Designing, implementing, and monitoring solutions that consider security, availability, resilience, and performance requirements.

Skills outline guide

- [DP-420](#)



Self-paced online learning
[Microsoft Learn](#)

Additional resources

- [Microsoft Docs](#)

Exam DP-420

[Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB \(beta\)](#)



Microsoft Certified:

Azure Cosmos DB Developer Specialty

Azure Cosmos DB Developers design, implement, and monitor cloud-native applications that store and manage data.

First, make sure your skills are up to date.

Need to update your skills in Azure administration?

[Azure Administrator training on Microsoft Learn.](#)



Learning path for Microsoft Certified:

Azure Cosmos DB Developer Specialty

Get started at

aka.ms/AzureCerts_CosmosDBDeveloper

Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data.

Instructor-led Training

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

DP-420T00 | 4 days

Exam DP-420

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (beta)



Pass certification exam **DP-420** to earn this certification

Microsoft Certified:
Azure Cosmos DB Developer Specialty

Self-paced online training on Microsoft Learn

Get started with Azure Cosmos DB SQL API

2 modules

Connect to Azure Cosmos DB SQL API with the SDK

2 modules

Execute queries in Azure Cosmos DB SQL API

2 modules

Integrate Azure Cosmos DB SQL API with Azure services

3 modules

Design and implement a replication strategy for Azure Cosmos DB SQL API

3 modules

Monitor and troubleshoot an Azure Cosmos DB SQL API solution

4 modules

Create server-side programming constructs in Azure Cosmos DB SQL API

2 modules

Plan and implement Azure Cosmos DB SQL API

3 modules

Access and manage data with the Azure Cosmos DB SQL API SDKs

3 modules

Define and implement an indexing strategy for Azure Cosmos DB SQL API

2 modules

Implement a data modeling and partitioning strategy for Azure Cosmos DB SQL API

2 modules

Optimize query and operation performance in Azure Cosmos DB SQL API

3 modules

Manage an Azure Cosmos DB SQL API solution using DevOps practices

2 modules

Azure AI Engineer Associate

Get started at
aka.ms/AzureCerts_AIEngineer

Who is this certification for?

Candidates for this certification should have subject matter expertise building, managing, and deploying AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework.

Responsibilities for this role include participating in all phases of AI solutions development—from requirements definition and design, to development, deployment, maintenance, performance tuning, and monitoring.

Exam details

AI-102:
Designing and Implementing a Microsoft Azure AI Solution

Skills measured:

- Plan and manage an Azure cognitive services solution
- Implement computer vision solutions
- Implement natural language processing solutions
- Implement knowledge mining solutions
- Implement conversational AI solutions

Knowledge and experience:

A candidate for this exam should be proficient in C#, Python, or JavaScript and should be able to use REST-based APIs and SDKs to build computer vision, natural language processing, knowledge mining, and conversational AI solutions on Azure. In addition, a candidate should understand the components that make up the Azure AI portfolio and the available data storage options. A candidate also needs to understand and be able to apply responsible AI principles.

Certification

Pass certification exam **AI-102** to earn this certification



Microsoft Certified:
Azure AI Engineer Associate

Azure AI Engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure AI Engineer Associate

Get started at
aka.ms/AzureCerts_AIEngineer



Start here
Decide if this is the right
certification for you

Upskill with recommended
training and experience

Take a practice exam

**Pass required exam to
earn your certification**

Continue to grow

This certification is a good fit if your responsibilities include:

- Participating in all phases of AI solutions development—from requirements definition and design to development, deployment, maintenance, performance tuning, and monitoring.

Brand new? First, master the basics.

New to the cloud or Azure?
[Choose Azure Fundamentals training.](#)

New to AI on Azure?
[Choose Azure AI Fundamentals training.](#)

Skills outline guide

- [AI-102](#)



Self-paced online learning
[Microsoft Learn](#)



Instructor-led training
[Course AI-102T00:](#)
Designing and
Implementing a Microsoft
Azure AI Solution (4 days)

Additional resources

- [Microsoft Docs](#)
- [Azure Developer Guide](#)
- [Azure Architecture Center](#)

- [Microsoft Official Practice Test AI-102](#)

Exam AI-102
[Designing and
Implementing a
Microsoft Azure
AI Solution](#)



Microsoft Certified:
Azure AI Engineer Associate

Azure AI Engineers build,
manage, and deploy AI solutions
that leverage Azure Cognitive
Services, Azure Cognitive Search,
and Microsoft Bot Framework.

Explore these resources next

- [Create machine learning models](#)
- [AI Business School](#)



Learning path for Microsoft Certified:

Azure AI Engineer Associate

Get started at
aka.ms/AzureCerts_AIEngineer

Azure AI Engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework.

Instructor-led
training

Designing and Implementing a Microsoft Azure AI Solution

AI-102T00 | 4 days

Prepare for AI engineering

1 module

Process and translate text with Azure Cognitive Services

2 modules

Create a Language Understanding solution

3 modules

Create conversational AI solutions

2 modules

Extract text from images and documents

2 modules

Exam AI-102

Designing and
Implementing a
Microsoft Azure AI Solution



Pass certification exam AI-102
to earn this certification

Microsoft Certified:
Azure AI Engineer Associate

Self-paced online
training on
Microsoft Learn

Provision and manage Azure Cognitive Services

4 modules

Process and Translate Speech with Azure Cognitive Speech Services

2 modules

Build a QnA solution

1 module

Create computer vision solutions with Azure Cognitive Services

5 modules

Implement knowledge mining with Azure Cognitive Search

3 modules

Azure Data Scientist Associate

Get started at
aka.ms/AzureCerts_DataScientist

Exam details

Who is this certification for?

Candidates for this certification should have subject matter expertise implementing and running machine learning workloads on Microsoft Azure.

Responsibilities for this role include planning and creating a suitable working environment for data science workloads on Azure, running data experiments and training predictive models, and managing, optimizing, and deploying machine learning models into production.

DP-100:
Designing and Implementing a Data Science Solution on Azure

Skills measured:

- Set up an Azure Machine Learning workspace
- Run experiments and train models
- Optimize and manage models
- Deploy and consume models

Knowledge and experience:

A candidate for this exam should have knowledge and experience in data science and using Azure Machine Learning.

Certification

Pass certification exam **DP-100** to earn this certification



Microsoft Certified:
Azure Data Scientist Associate

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.

Products featured

- Microsoft Azure



The journey to Microsoft Certified:

Azure Data Scientist Associate

Get started at
aka.ms/AzureCerts_DataScientist



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Take a practice exam

Pass required exam to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Planning and creating a suitable working environment for data science workloads on Azure.
- Running data experiments and training predictive models.
- Managing, optimizing, and deploying machine learning models into production.

Skills outline guide

- [DP-100](#)



Self-paced online learning
[Microsoft Learn](#)



Instructor-led training
[Course DP-100T01: Designing and Implementing a Data](#)

Additional resources

- [Microsoft Docs](#)

- [Microsoft Official Practice Test DP-100](#)

Exam DP-100
[Designing and Implementing a Data Science Solution on Azure](#)



Microsoft Certified:
Azure Data Scientist Associate

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.

Explore these resources next

- [AI Business School](#)

Brand new? First, master the basics.

New to the cloud or Azure?

[Choose Azure Fundamentals training.](#)

New to Artificial Intelligence (AI) or AI on Azure?

[Choose Azure AI Fundamentals training.](#)



Learning path for Microsoft Certified:

Azure Data Scientist Associate

Get started at
aka.ms/AzureCerts_DataScientist

Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning.
Explore recommended training resources that will help you prepare for required exams.

Instructor-led
training

**Designing and Implementing a
Data Science Solution on Azure**

DP-100T01 | 3 days

AND

**Implementing a Machine Learning Solution
with Microsoft Azure Databricks**

DP-090T00 | 1 day

Exam DP-100

Designing and
Implementing a Data
Science Solution on Azure



Pass certification exam DP-100
to earn this certification

Microsoft Certified:
Azure Data Scientist Associate

Self-paced online
training on
Microsoft Learn

**Create machine
learning models**

5 modules

**Build and operate machine
learning solutions with Azure
Machine Learning**

15 modules

**Microsoft Azure AI
Fundamentals: Explore visual
tools for machine learning**

4 modules

**Build and operate machine
learning solutions with
Azure Databricks**

10 modules

Resources

Microsoft Learn
[Microsoft.com/Learn](https://microsoft.com/learn)

Microsoft Official Practice Tests
aka.ms/PracticeTests

Certification poster
aka.ms/AzureCerts_Poster

Learning Partners
aka.ms/LearningPartners

Microsoft Learn Support
aka.ms/LearnFAQ

Certification Support
aka.ms/MCPForum

Microsoft Learn Newsletter
aka.ms/LearnNewsletter

Microsoft Learn Tech
Community
aka.ms/LearnTechCommunity

Microsoft Learn Blog
aka.ms/MicrosoftLearnBlog

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