**Microsoft**

# Microsoft Azure
# training and certifications

aka.ms/AzureTrainCertDeck

# Table of contents

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

# Training journey for cloud IT pros

## Grow in role

**▶ Start here**

Choose additional paths that best fit your role and projects

**Implement, manage, and monitor cloud solutions**
Azure administrator

AZ-104

↳

**Implement and manage secure cloud solutions**
Azure security engineer

AZ-500

↳

**Bring cloud agility on-premises**
Azure Stack Hub operator
Delivered only by Microsoft Learning Partners

AZ-600

**Manage SAP solutions on Azure**
Azure for SAP workloads

AZ-120

↳

↳

**Deliver virtual desktop experiences and remote apps on Azure**
Azure Virtual Desktop administrator

AZ-140

↳

**Implement and manage networking solutions**
Azure network engineer

AZ-700

**Want to keep learning?**    Explore the Security, Compliance, and Identity Training Journey

**Master the basics**

**New to the cloud or new to Azure**
Azure fundamentals

AZ-900

**New to Azure administration**
Prerequisites for Azure administrators

# Training journey for hybrid cloud IT pros

Check out the full
[Azure Training Journey](#)

## Grow in role

**Start here**

Choose additional paths that best fit your role and projects

**Manage Windows Server on-premises, hybrid, and IaaS platform workloads**
Windows Server hybrid administrator

AZ-800
AZ-801

**Implement, manage, and monitor cloud solutions**
Azure administrator

AZ-104

**Deliver virtual desktop experiences and remote apps on Azure**
Azure Virtual Desktop administrator

AZ-140

## Master the basics

**New to the cloud or new to Azure**
Azure fundamentals

AZ-900

**New to Azure administration**
Prerequisites for Azure administrators

# Training journey for cloud IT pros expert level

## Grow in role

**Start here**

Choose additional paths that best fit your role and projects

**Implement, manage, and monitor cloud solutions**

AZ-104

Azure administrator

↘

**Deliver continuous value integrating people, processes, and technologies**

AZ-400

DevOps engineer

↘

**Design and implement end-to-end cloud solutions**

AZ-305

Azure solutions architect

## Master the basics

**New to Azure administration**

Prerequisites for Azure administrators

**New to Azure infrastructure architecture**

Prerequisites for Azure solution architects

# Training journey for developers

## Grow in role

**Start here**

Choose additional paths that best fit your role and projects

**Design, build, test, and maintain cloud apps**
Azure developer
AZ-204

↘

**Build, manage, and deploy AI solutions**
Azure AI engineer
AI-102

↘

**Deliver continuous value integrating people, processes, and technologies**
DevOps engineer
AZ-400

↘

**Develop cloud and edge IoT solutions**
Azure IoT developer
AZ-220

↘

**Develop cloud-native apps that store and manage data**
Azure Cosmos DB developer
DP-420

**Want to keep learning?**     Check out the Power Platform Training Journey

**Master the basics**

**New to the cloud or new to Azure**
Azure fundamentals
AZ-900

**New to data solutions on Azure**
Azure data fundamentals
DP-900

**New to AI or new to AI on Azure**
Azure AI fundamentals
AI-900

# Training journey for data & AI professionals

## Grow in role

**Start here**

Choose additional paths that best fit your role and projects

**Manage relational cloud and hybrid databases**
Azure database administrator
DP-300

↘

**Deliver continuous value integrating people, processes, and technologies**
Azure data engineer
DP-203

↘

**Build, train, and deploy machine learning models**
Azure data scientist
DP-100

## Master the basics

**New to the cloud or new to Azure**
Azure fundamentals
AZ-900

**New to data solutions on Azure**
Azure data fundamentals
DP-900

**New to AI or new to AI on Azure**
Azure AI fundamentals
AI-900

# Training journey for data analysts

## Grow in role

> **Start here**

| Maximize the value of data assets with advanced analytics | |
|---|---|
| **Maximize the value of data assets with advanced analytics** | PL-300 |
| Power BI data analyst | |

↘

| **Build enterprise-scale data analytics solutions** | DP-500 |
|---|---|
| Azure Enterprise data analyst | |

**Master the basics**

| **New to the cloud or new to Azure** | AZ-900 |
|---|---|
| Azure fundamentals | |

| **New to data solutions on Azure** | DP-900 |
|---|---|
| Azure data fundamentals | |

| **New to Microsoft Power Platform** | PL-900 |
|---|---|
| Microsoft Power Platform Fundamentals | |

# 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 AI Fundamentals

> Azure Data Fundamentals

> Azure Fundamentals

> Azure Virtual Desktop

> Cloud-Native Apps

> Deliver Integrated Analytics with Azure Synapse

> DevOps with GitHub

> Linux OSS Database Migration

> Migrating On-Premises Infrastructure and Data

> Well-Architected

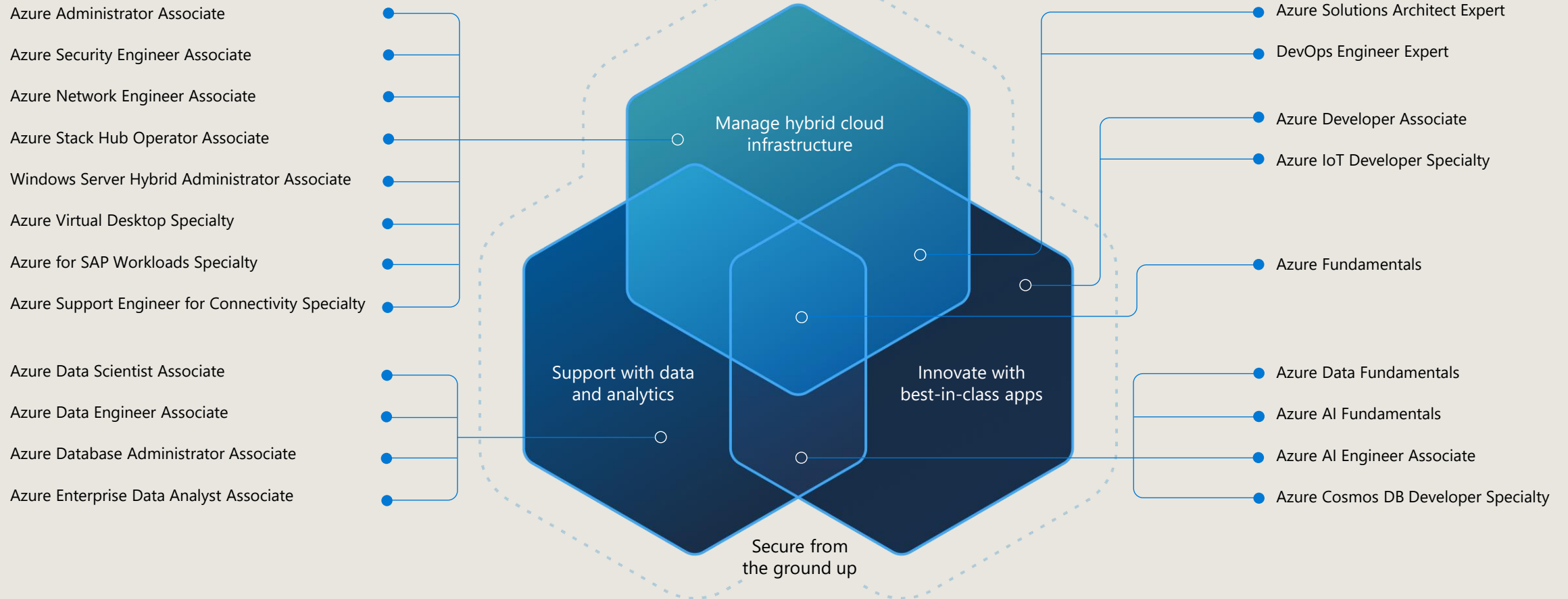View all Azure Virtual Training Days >

# Microsoft Azure certifications

Help advance your career, earn recognition, and validate your technical knowledge and abilities in current and future industry job roles with Microsoft Azure certifications. Visit the certifications page to get started.

aka.ms/AzureCerts_Poster

Azure Administrator Associate

Azure Security Engineer Associate

Azure Network Engineer Associate

Azure Stack Hub Operator Associate

Windows Server Hybrid Administrator Associate

Azure Virtual Desktop Specialty

Azure for SAP Workloads Specialty

Azure Support Engineer for Connectivity Specialty

Azure Data Scientist Associate

Azure Data Engineer Associate

Azure Database Administrator Associate

Azure Enterprise Data Analyst Associate

Manage hybrid cloud infrastructure

Support with data and analytics

Innovate with best-in-class apps

Secure from the ground up

Azure Solutions Architect Expert

DevOps Engineer Expert

Azure Developer Associate

Azure IoT Developer Specialty

Azure Fundamentals

Azure Data Fundamentals

Azure AI Fundamentals

Azure AI Engineer Associate

Azure Cosmos DB Developer Specialty

Azure. Invent with purpose.

# Microsoft Azure certifications for IT pros (1)

| Azure Administrator Associate<br>Exam AZ-104 | Azure Security Engineer Associate<br>Exam AZ-500 | Azure Stack Hub Operator Associate<br>Exam AZ-600 | Azure Network Engineer Associate<br>Exam AZ-700 | Windows Server Hybrid Administrator Associate<br>Exams AZ-800 + AZ-801 |
|---|---|---|---|---|
| Azure administrators implement, manage, and monitor an organization's Microsoft Azure environment. | Azure security engineers implement security controls that protect identity, access, data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure. | Azure Stack Hub operators provide infrastructure as a service (IaaS) and platform as a service (PaaS) offering to end users or customers from within their own datacenter using Azure Stack Hub. | Azure network engineers plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services. | Windows Server hybrid administrators configure and manage Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workloads. |
| • Manage Azure identities and governance<br>• Implement and manage storage<br>• Deploy and manage Azure compute resources<br>• Configure and manage virtual networking<br>• Monitor and maintain Azure resources | • Manage identity and access<br>• Implement platform protection<br>• Manage security operations<br>• Secure data and applications | • Plan and deploy Azure Stack Hub<br>• Provide services<br>• Manage infrastructure | • Design, implement, and manage hybrid networking<br>• Design and implement core networking infrastructure<br>• Design and implement routing<br>• Secure and monitor networks<br>• Design and implement private access to Azure services | • Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments<br>• Manage Windows Servers and workloads in a hybrid environment<br>• Manage virtual machines and containers<br>• Implement and manage an on-premises and hybrid networking infrastructure<br>• Manage storage and file services<br>• Secure Windows Server on-premises and hybrid infrastructures<br>• Implement and manage Windows Server high availability<br>• Implement disaster recovery<br>• Migrate servers and workloads<br>• Monitor and troubleshoot Windows Server environments |

# Microsoft Azure certifications for IT pros (2)

| DevOps Engineer Expert<br>Exam AZ-400 | Azure Solutions Architect Expert<br>Exam AZ-305 | Azure for SAP Workloads Specialty<br>Exam AZ-120 | Azure Virtual Desktop Specialty<br>Exam AZ-140 | Azure Support Engineer for Connectivity Specialty<br>Exam AZ-720 |
|---|---|---|---|---|
| DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations. | Azure solution architects design cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security. | 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 initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure. | Administrators for Azure Virtual Desktop design, implement, manage, and maintain Microsoft Azure Virtual Desktop experiences and remote apps for any device. | Support engineers for Azure connectivity use advanced troubleshooting methods to resolve networking and connectivity issues in Azure. |
| • Develop an instrumentation strategy<br>• Develop a Site Reliability Engineering (SRE) strategy<br>• Develop a security and compliance plan<br>• Manage source control<br>• Facilitate communication and collaboration<br>• Define and implement continuous integration<br>• Define and implement a continuous delivery and release management strategy | • Design identity, governance, and monitoring solutions<br>• Design data storage solutions<br>• Design business continuity solutions<br>• Design infrastructure solutions | • Migrate SAP workloads to Azure<br>• Design and implement an infrastructure to support SAP workloads on Azure<br>• Design and implement high availability and disaster recovery (HA/DR)<br>• Maintain SAP workloads on Azure | • Plan and implement an Azure Virtual Desktop infrastructure<br>• Plan and implement identity and security<br>• Plan and implement user environments and apps<br>• Monitor and maintain an Azure Virtual Desktop infrastructure | • Troubleshoot business continuity issues<br>• Troubleshoot hybrid and cloud connectivity issues<br>• Troubleshoot Platform as a Service issues<br>• Troubleshoot authentication and access control issues<br>• Troubleshoot networks<br>• Troubleshoot VM connectivity issues |

# Microsoft Azure certifications for developers

Innovate with best-in-class apps

| Azure Developer Associate Exam AZ-204 | DevOps Engineer Expert Exam AZ-400 | Azure IoT Developer Specialty Exam AZ-220 | Azure AI Engineer Associate Exam AI-102 | Azure Cosmos DB Developer Specialty Exam DP-420 |
|---|---|---|---|---|
| Azure developers participate in all phases of development from requirements definition and design to development, deployment, and maintenance. | DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations. | Azure IoT developers implement the configuration and coding tasks required to create and maintain the cloud and edge portions of an IoT solution. | Azure AI engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services. | Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data. |
| • Develop Azure compute solutions<br>• Develop for Azure storage<br>• Implement Azure security<br>• Monitor, troubleshoot, and optimize Azure solutions<br>• Connect to and consume Azure services and third-party services | • Develop an instrumentation strategy<br>• Develop a Site Reliability Engineering (SRE) strategy<br>• Develop a security and compliance plan<br>• Manage source control<br>• Facilitate communication and collaboration<br>• Define and implement continuous integration<br>• Define and implement a continuous delivery and release management strategy | • Set up the Azure IoT Hub solution infrastructure<br>• Provision and manage devices<br>• Implement IoT Edge<br>• Implement business integration<br>• Process and manage data<br>• Monitor, troubleshoot, and optimize IoT solutions<br>• Implement security | • Plan and manage an Azure Cognitive Services solution<br>• Implement Computer Vision solutions<br>• Implement natural language processing solutions<br>• Implement knowledge mining solutions<br>• Implement conversational AI solutions | • Design and implement data models<br>• Design and implement data distribution<br>• Integrate an Azure Cosmos DB solution<br>• Optimize an Azure Cosmos DB solution<br>• Maintain an Azure Cosmos DB solution |

# Microsoft Azure certifications for data and AI pros (1)

| Azure Database Administrator Associate<br>Exam DP-300 | Azure Data Engineer Associate<br>Exam DP-203 | Azure Data Scientist Associate<br>Exam DP-100 |
| --- | --- | --- |
| Azure database administrators implement and manage the operational aspects of cloud-native and hybrid data platform solutions built with Microsoft SQL Server and Microsoft Azure Data Services. | Azure data engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions. | Azure data scientists apply data science and machine learning to implement and run machine learning workloads on Azure. |
| • Plan and implement data platform resources<br>• Implement a secure environment<br>• Monitor, configure, and optimize database resources<br>• Configure and manage automation of tasks<br>• Plan and configure a high availability and disaster recovery (HA/DR) environment | • Design and implement data storage<br>• Design and develop data processing<br>• Design and implement data security<br>• Monitor and optimize data storage and data processing | • Manage Azure resources for machine learning<br>• Run experiments and train models<br>• Deploy and operationalize machine learning solutions<br>• Implement responsible machine learning |

# Microsoft Azure certifications for data and AI pros (2)

Support with data and analytics

| Azure AI Engineer Associate<br>Exam AI-102 | Azure Cosmos DB Developer Specialty<br>Exam DP-420 | Azure Enterprise Data Analyst Associate<br>Exam DP-500 |
|---|---|---|
| Azure AI engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services. | Azure Cosmos DB developers design, implement, and monitor cloud-native applications that store and manage data. | Azure Enterprise data analysts design, create, and deploy enterprise-scale data analytics solutions. |
| • Plan and manage an Azure Cognitive Services solution<br>• Implement Computer Vision solutions<br>• Implement natural language processing solutions<br>• Implement knowledge mining solutions<br>• Implement conversational AI solutions | • Design and implement data models<br>• Design and implement data distribution<br>• Integrate an Azure Cosmos DB solution<br>• Optimize an Azure Cosmos DB solution<br>• Maintain an Azure Cosmos DB solution | • Implement and manage a data analytics environment<br>• Query and transform data<br>• Implement and manage data models<br>• Explore and visualize data |

# Get the right foundations

| Azure Fundamentals<br>Exam AZ-900 | Azure AI Fundamentals<br>Exam AI-900 | Azure Data Fundamentals<br>Exam DP-900 |
|---|---|---|
| Azure fundamentals validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure. | Azure AI fundamentals validates foundational knowledge of machine learning and artificial intelligence concepts and related Microsoft Azure services. | Azure data fundamentals validates foundational knowledge of core data concepts and how they're implemented using Azure data services. |
| • Describe cloud concepts<br>• Describe Azure architecture and services<br>• Describe Azure management and governance | • Describe AI workloads and considerations<br>• Describe fundamental principles of machine learning on Azure<br>• Describe features of computer vision workloads on Azure<br>• Describe features of Natural Language Processing (NLP) workloads on Azure | • Describe core data concepts<br>• Identify considerations for relational data on Azure<br>• Describe considerations for working with non-relational data on Azure<br>• Describe an analytics workload on Azure |

# The journey to Microsoft Certified:
# Azure Fundamentals

**Start here**
Decide if this is the right
certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit if:**

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

**Exam study guide**

› AZ-900

**Self-paced training**

› Microsoft Learn

**Instructor-led training**

› Course AZ-900: Microsoft Azure Fundamentals

**Virtual events**

› Microsoft Azure Virtual Training Day: Fundamentals

**Exam preparation**

› Exam Readiness Zone

**Take a practice exam**

Practice Assessment on Microsoft Learn AZ-900

**Skills measured:**

- Describe cloud concepts
- Describe Azure architecture and services
- Describe Azure management and governance

› **Pass** 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

Microsoft Azure

The journey to Microsoft Certified:
# Azure Data Fundamentals

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

---

**This certification is a good fit if:**

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

**Exam study guide**

> DP-900

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course DP-900: Microsoft Azure Data Fundamentals

**Virtual events**

> Microsoft Azure Virtual Training Day: Data Fundamentals

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Practice Assessment on Microsoft Learn DP-900

**Skills measured:**

- Describe core data concepts
- Identify considerations for relational data on Azure
- Describe considerations for working with non-relational data on Azure
- Describe an analytics workload on Azure

> **Pass** 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're implemented using Azure data services.

**Products featured**

- Microsoft Azure
- Microsoft SQL Server

**Brand new? First, master the basics.**

**New to the cloud or Azure?**
Choose Azure fundamentals training.

Microsoft Azure

The journey to Microsoft Certified:
# Azure AI Fundamentals

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit if:**

- You are new to AI or AI on Azure.

**Exam study guide**

> AI-900

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AI-900: Microsoft Azure AI Fundamentals

**Virtual events**

> Microsoft Azure Virtual Training Day: AI Fundamentals

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

**Practice Assessment on Microsoft Learn AI-900**

**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

> **Pass** Exam AI-900 to earn this certification.

Microsoft
CERTIFIED

FUNDAMENTALS
★

Microsoft Certified:
**Azure AI Fundamentals**

Azure AI fundamentals validates foundational knowledge of machine learning and artificial intelligence concepts and related Microsoft Azure services.

**Products featured**

- Microsoft Azure

**Brand new? First, master the basics.**

**New to the cloud or Azure?**
Choose Azure fundamentals training.

Microsoft Azure

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit if your responsibilities include:**

- Managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment, plus provision, size, monitor, and adjust 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 training.

**Exam study guide**

> AZ-104

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-104: Microsoft Azure Administrator

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-104

**Skills measured:**

- Manage Azure identities and governance

- Implement and manage storage

- Deploy and manage Azure compute resources

- Configure and manage virtual networking

- Monitor and maintain Azure resources

> Pass 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

Microsoft Azure

Watch the Azure certifications overview video

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit if your responsibilities include:**

- Managing the security posture, identifying and remediating vulnerabilities, performing threat modeling, implementing threat protection, and responding to security incident escalations.

**Exam study guide**
> AZ-500

**Self-paced training**
> Microsoft Learn

**Instructor-led training**
> Course AZ-500: Microsoft Azure Security  Technologies

**Exam preparation**
> Exam Readiness Zone

**Take a practice exam**
> Microsoft Official Practice Test AZ-500

**Skills measured:**

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

> **Pass** Exam AZ-500 to earn this certification.

Microsoft Certified:
**Azure Security Engineer Associate**

Azure security engineers implement security controls that protect identity, access, data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure.

**First, make sure your skills are up to date.**

**Need to update your skills in Azure administration?**
Choose Azure administrator training.

**Products featured**

- Microsoft Azure

The journey to Microsoft Certified:
# Azure Stack Hub Operator Associate

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit if your responsibilities include:**

- Planning, deploying, updating, and maintaining the Azure Stack Hub infrastructure.

- Configuring resources, managing infrastructure capacity, and optimizing the services that run in Azure Stack Hub.

**Exam study guide**

> AZ-600

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-600

**Skills measured:**

- Plan and deploy Azure Stack Hub

- Provide services

- Manage infrastructure

> **Pass** Exam AZ-600 to earn this certification.

Microsoft Certified:
**Azure Stack Hub Operator Associate**

Azure Stack Hub operators provide infrastructure as a service (IaaS) and platform as a service (PaaS) offering to 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?**
Choose Azure administrator training.

**Products featured**

- Microsoft Azure

Microsoft Azure

Watch the Azure certifications overview video

# The journey to Microsoft Certified:
# Azure Network Engineer Associate

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

---

**This certification is a good fit i if your responsibilities include:**

- Recommending, planning, and implementing Azure networking solutions.

- 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).

**Exam study guide**

> AZ-700

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-700: Designing and Implementing Microsoft Azure Networking Solutions

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-700

**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

> **Pass** Exam AZ-700 to earn this certification.

Microsoft Certified:
**Azure Network Engineer Associate**

Azure network engineers plan, implement, and maintain Azure networking solutions, including hybrid networking, connectivity, routing, security, and private access to Azure services.

**Products featured**

- Microsoft Azure

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**First, make sure your skills are up to date.**

**Need to update your skills in Azure administration?**
Choose Azure administrator training.

Microsoft Azure

# The journey to Microsoft Certified:
# Azure Support Engineer for Connectivity Specialty

Get started at
**aka.ms/AzureCerts_SupportEngConnectivity**

**Start here**
Decide if this is the right
certification for you

**Get trained**

**Build confidence**

**Get recognized**

**This certification is a good fit i if your responsibilities include:**

- Troubleshooting hybrid environments, including issues with Azure Virtual Machines, virtual networks, and connectivity between on-premises and Azure services.

- Using various tools and technologies to diagnose and identify root causes for complex issues.

**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 networking?**
Choose Azure network engineer training.

**Exam study guide**

> AZ-720

**Self-paced training**

> **Microsoft Learn**

**Instructor-led training**

**Coming soon**

**Exam preparation**

> **Exam Readiness Zone**

**Skills measured:**.

- Troubleshoot business continuity issues

- Troubleshoot hybrid and cloud connectivity issues

- Troubleshoot Platform as a Service issues

- Troubleshoot authentication and access control issues

- Troubleshoot networks

- Troubleshoot VM connectivity issues

> **Pass** Exam AZ-720 to earn this certification.

Microsoft Certified:
**Azure Support Engineer for Connectivity Specialty**

Support engineers for Azure connectivity use advanced troubleshooting methods to resolve networking and connectivity issues in Azure.

**Products featured**

- Microsoft Azure

Microsoft Azure

Watch the Azure certifications overview video

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

**Get trained**

**Build confidence**

**Get recognized**

---

**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.

**OR**

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

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

**Exam study guides**

> AZ-800 and AZ-801

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-800 Administering Windows Server Hybrid Core Infrastructure

> Course AZ-801T00 Configuring Windows Server Hybrid Advanced Services

**Virtual events**

> Microsoft Azure Virtual Training Day: Implementing Hybrid 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
- 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

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-801

> **Pass** Exam AZ-800 and Exam 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

Microsoft Azure

Watch the Azure certifications overview video

# The journey to Microsoft Certified:
# Azure Solutions Architect Expert

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

---

**This certification is a good fit if your responsibilities include:**

- Advising stakeholders and translating business requirements into designs for secure, scalable, and reliable Azure solutions.

**Prerequisite: Certification**

- Azure Administrator Associate

**Exam study guide**

> AZ-305

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-305: Designing Microsoft Azure Infrastructure Solutions

**Virtual events**

> Microsoft Azure Virtual Training Day: Well-Architected

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Practice Assessment on Microsoft Learn AZ-305

**Skills measured:**

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

> **Pass** Exam AZ-305 to earn this certification.

Microsoft Certified:
**Azure Solutions Architect Expert**

Azure solution architects design cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security.

**Products featured**

- Microsoft Azure

---

**First, make sure your skills are up to date.**

**Need to update your skills in Azure infrastructure architecture?**
Choose Azure architect design prerequisites training.

Microsoft Azure

# The journey to Microsoft Certified:
# Azure for SAP Workloads Specialty

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

---

**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.

**Exam study guide**

> AZ-120

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-120: Planning and Administering Microsoft Azure for SAP Workloads

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-120

**Skills measured:**

- Migrate SAP workloads to Azure

- Design and implement an infrastructure to support SAP workloads on Azure

- Design and implement high availability and disaster recovery (HA/DR)

- Maintain SAP workloads on Azure

> **Pass** 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 initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure.

**Products featured**

- Microsoft Azure

**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 architecture?**
Choose Azure solutions architect training.

Microsoft Azure

Watch the Azure certifications overview video

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Decide if this is the right
certification for you

**Get trained**

**Build confidence**

**Get recognized**

**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.

**Exam study guide**

> AZ-140

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-140: Configuring and Operating Microsoft Azure Virtual Desktop

**Virtual events**

> Microsoft Azure Virtual Training Day: Azure Virtual Desktop

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-140

**Skills measured:**

- Plan and implement an Azure Virtual Desktop infrastructure
- Plan and implement identity and security
- Plan and implement user environments and apps
- Monitor and maintain an Azure Virtual Desktop infrastructure

> **Pass** Exam AZ-140 to earn this certification.

Microsoft Certified:
**Azure Virtual Desktop Specialty**

Administrators for Azure Virtual Desktop design, implement, manage, and maintain Microsoft Azure Virtual Desktop experiences and remote apps for any device.

**Products featured**

- Microsoft Azure

**First, make sure your skills are up to date.**

**Need to update your skills in Azure administration?**
Choose Azure administrator training.

Microsoft Azure

# The journey to Microsoft Certified:
# Azure Developer Associate

**Start here**
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**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.

**Exam study guide**

> AZ-204

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-204: Developing solutions for Microsoft Azure

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Practice Assessment on Microsoft Learn AZ-204

**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

> **Pass** Exam AZ-204 to earn this certification.

Microsoft Certified:
**Azure Developer Associate**

Azure developers participate in all phases of development from requirements definition and design to development, deployment, and maintenance.

**Products featured**

- Microsoft Azure

Microsoft Azure

The journey to Microsoft Certified:
# DevOps Engineer Expert

**Start here**
Decide if this is the right certification for you

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**Build confidence**

**Get recognized**

**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.

**Prerequisite**

**Certification option 1**

- Azure Administrator Associate

**OR**

**Certification option 2**

- Azure Developer Associate

**Exam study guide**

> AZ-400

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-400: Designing and Implementing Microsoft DevOps solutions

**Virtual events**

> Microsoft Azure Virtual Training Day: DevOps with GitHub

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-400

**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

> **Pass** Exam AZ-400 to earn this certification.

Microsoft Certified:
**DevOps Engineer Expert**

DevOps engineers work with people, processes, and products to enable continuous delivery of value in organizations.

**Products featured**

- Microsoft Azure

Microsoft Azure

# The journey to Microsoft Certified:
# Azure IoT Developer Specialty

**Start here**
Decide if this is the right certification for you

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**Build confidence**

**Get recognized**

**This certification is a good fit if your responsibilities include:**

- Deploying, configuring, and maintaining physical devices using cloud services.

- Implementing design specifications for IoT solutions, including device topology, connectivity, diagnostics and monitoring, and security.

- Configuring device networking for the Azure IoT Edge portion of the solution.

- Implementing designs for solutions to manage data pipelines, including monitoring and data transformation as they relate to IoT.

**First, make sure your skills are up to date.**

**Need to update your skills in Azure development?**
Choose Azure developer training.

**Exam study guide**

> AZ-220

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AZ-220: Microsoft Azure IoT Developer

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AZ-220

**Skills measured:**

- Set up the Azure IoT Hub solution infrastructure

- Provision and manage devices

- Implement IoT Edge

- Implement business integration

- Process and manage data

- Monitor, troubleshoot, and optimize IoT solutions

- Implement security

> **Pass** Exam AZ-220 to earn this certification.

Microsoft Certified:
**Azure IoT Developer Specialty**

Azure IoT developers implement the configuration and coding tasks required to create and maintain the cloud and edge portions of an IoT solution.

**Products featured**

- Microsoft Azure

Microsoft Azure

The journey to Microsoft Certified:
# Azure Database Administrator Associate

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

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**This certification is a good fit if your responsibilities include:**

- Management, availability, security, and performance monitoring and optimization of database solutions.

- Evaluating and implementing migration strategies for moving databases to Azure.

**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

**Exam study guide**

> DP-300

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course DP-300: Administering Microsoft Azure SQL Solutions

**Virtual events**

> Microsoft Azure Virtual Training Day: Migrating On-Premises Infrastructure and Data

**Brand new? First, master the basics.**

**New to data solutions on Azure?**
Choose Azure data fundamentals training.

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test DP-300

**Skills measured:**

- Plan and implement data platform resources

- Implement a secure environment

- Monitor, configure, and optimize database resources

- Configure and manage automation of tasks

- Plan and configure a high availability and disaster recovery (HA/DR) environment

> **Pass** Exam DP-300 to earn this certification.

Microsoft Certified:
**Azure Database Administrator Associate**

Azure database administrators implement and manage the operational aspects of cloud-native and hybrid data platform solutions built with Microsoft SQL Server and Microsoft Azure Data Services.

**Products featured**

- Microsoft Azure
- Microsoft SQL Server

Microsoft Azure

Watch the Azure certifications overview video

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**Apply skills**

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**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 data solutions on Azure?**
Choose Azure data fundamentals training.

**Exam study guide**
> DP-203

**Self-paced training**
> Microsoft Learn

**Instructor-led training**
> Course DP-203: Data Engineering on Microsoft Azure

**Virtual events**
> Microsoft Azure Virtual Training Day: Deliver Integrated Analytics with Azure Synapse

**Exam preparation**
> Exam Readiness Zone

**Take a practice exam**
> Practice Assessment on Microsoft Learn DP-203

**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

> **Pass** 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

> **Cloud Games on Microsoft Learn: Data Feeds**

Microsoft Azure

# The journey to Microsoft Certified:
# Azure Enterprise Data Analyst Associate

Get started at
**aka.ms/AzureCerts_EnterpriseDataAnalyst**

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

**Apply skills**

---

**This certification is a good fit if your responsibilities include:**

- Performing advanced data analytics at scale, such as cleaning and transforming data, designing and building enterprise data models, incorporating advanced analytics capabilities, integrating with IT infrastructure, and applying development lifecycle practices.

- Helping collect enterprise-level requirements for data analytics solutions that include Azure and Microsoft Power BI.

- Advising on data governance and configuration settings for Power BI administration, monitor data usage, and optimize performance of the data analytics solutions.

**Brand new? First, master the basics.**

**New to data solutions on Azure?**
Choose Azure data fundamentals training.

**Exam study guide**

> DP-500

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course DP-500: Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI

**Virtual events**

> Microsoft Azure Virtual Training Day: Deliver Integrated Analytics with Azure Synapse

**Make sure your skills are up to date.**

**Need to update your skills in data analytics?**
Choose Microsoft Power BI data analyst training.

**Exam preparation**

> Exam Readiness Zone

**Skills measured:**

- Implement and manage a data analytics environment

- Query and transform data

- Implement and manage data models

- Explore and visualize data

> **Pass** Exam DP-500 to earn this certification.

Microsoft Certified:
**Azure Enterprise Data Analyst Associate**

Azure Enterprise data analysts design, create, and deploy enterprise-scale data analytics solutions.

**Products featured**

- Microsoft Power BI

> Cloud Games on Microsoft Learn: Data Feeds

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Microsoft Azure

Watch the Azure certifications overview video

**Start here**
Decide if this is the right
certification for you

**Get trained**

**Build confidence**

**Get recognized**

**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, and optimizing and maintaining the solution.

- Designing, implementing, and monitoring solutions that consider security, availability, resilience, and performance requirements.

**Exam study guide**

> DP-420

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

**Virtual events**

> Microsoft Azure Virtual Training Day: Cloud-Native Apps

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test DP-420

**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

> **Pass** 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

**Brand new? First, master the basics.**

**New to data solutions on Azure?**
Choose Azure data fundamentals training.

Microsoft Azure

Watch the Azure certifications overview video

# The journey to Microsoft Certified:
# Azure AI Engineer Associate

**Start here**
Decide if this is the right certification for you

**Get trained**

**Build confidence**

**Get recognized**

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**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.

**Exam study guide**

> AI-102

**Self-paced training**

> Microsoft Learn

**Instructor-led training**

> Course AI-102: Designing and Implementing a Microsoft Azure AI Solution (4 days)

**Exam preparation**

> Exam Readiness Zone

**Take a practice exam**

> Microsoft Official Practice Test AI-102

**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

> **Pass** 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 and Azure Applied AI services.

**Products featured**

- Microsoft Azure

**Brand new? First, master the basics.**

**New to AI or AI on Azure?**
Choose Azure AI fundamentals training.

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

**Get trained**

**Build confidence**

**Get recognized**

**Apply skills**

---

**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.

**Exam study guide**
› **DP-100**

**Self-paced training**
› **Microsoft Learn**

**Instructor-led training**
› **Course DP-100: Designing and Implementing a Data**

› **Course DP-090: Implementing a Machine Learning Solution with Microsoft Azure Databricks**

**Exam preparation**
› **Exam Readiness Zone**

**Take a practice exam**
› **Microsoft Official Practice Test DP-100**

**Skills measured:**
- Manage Azure resources for machine learning

- Run experiments and train models

- Deploy and operationalize machine learning solutions

- Implement responsible machine learning

› **Pass** Exam DP-100 to earn this certification.

Microsoft Certified:
**Azure Data Scientist Associate**

Azure data scientists apply data science and machine learning to implement and run machine learning workloads on Azure.

› **Cloud Games on Microsoft Learn: Data Feeds**

**Products featured**

- Microsoft Azure

**Brand new? First, master the basics.**

**New to AI or AI on Azure?**
Choose Azure AI fundamentals training.

Microsoft Azure

# Resources

> **Microsoft Learn**
> [Microsoft.com/Learn](Microsoft.com/Learn)

> **Practice Assessments on Microsoft Learn**
> [https://aka.ms/practiceassessments](https://aka.ms/practiceassessments)

> **Azure certifications poster**
> [aka.ms/AzureCerts_Poster](aka.ms/AzureCerts_Poster)

> **Microsoft Learning Partners**
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