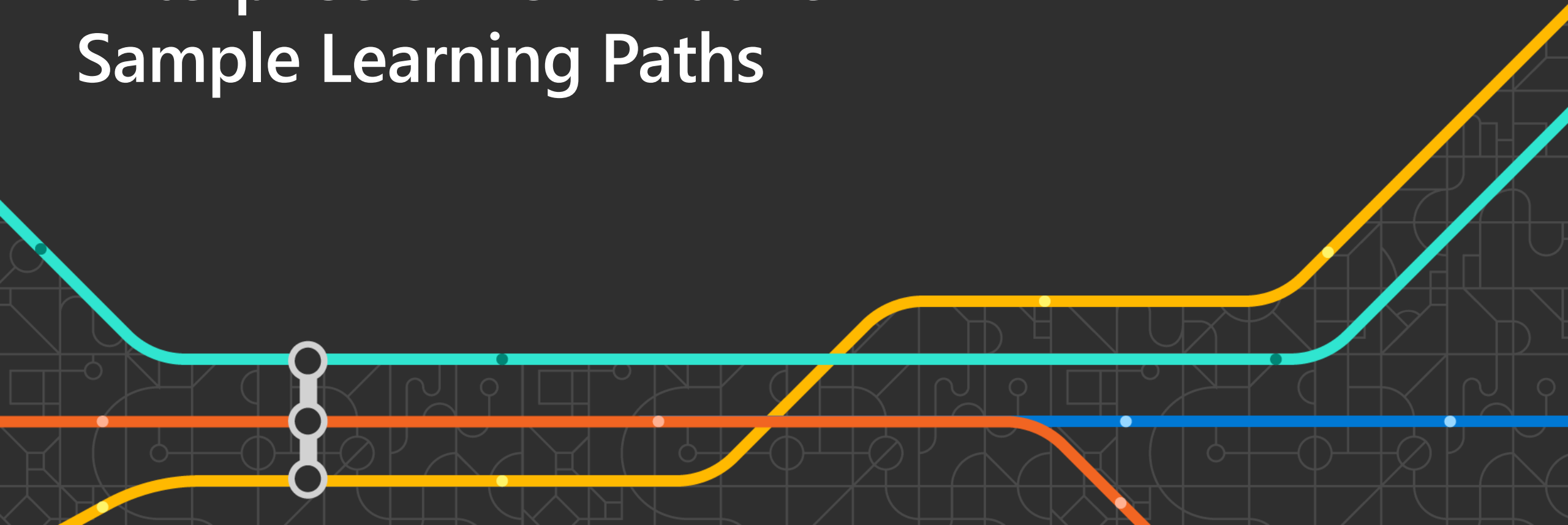


Enterprise Skills Initiative Sample Learning Paths



Centralize the learner journey in the Enterprise Skills Initiative(ESI) Portal

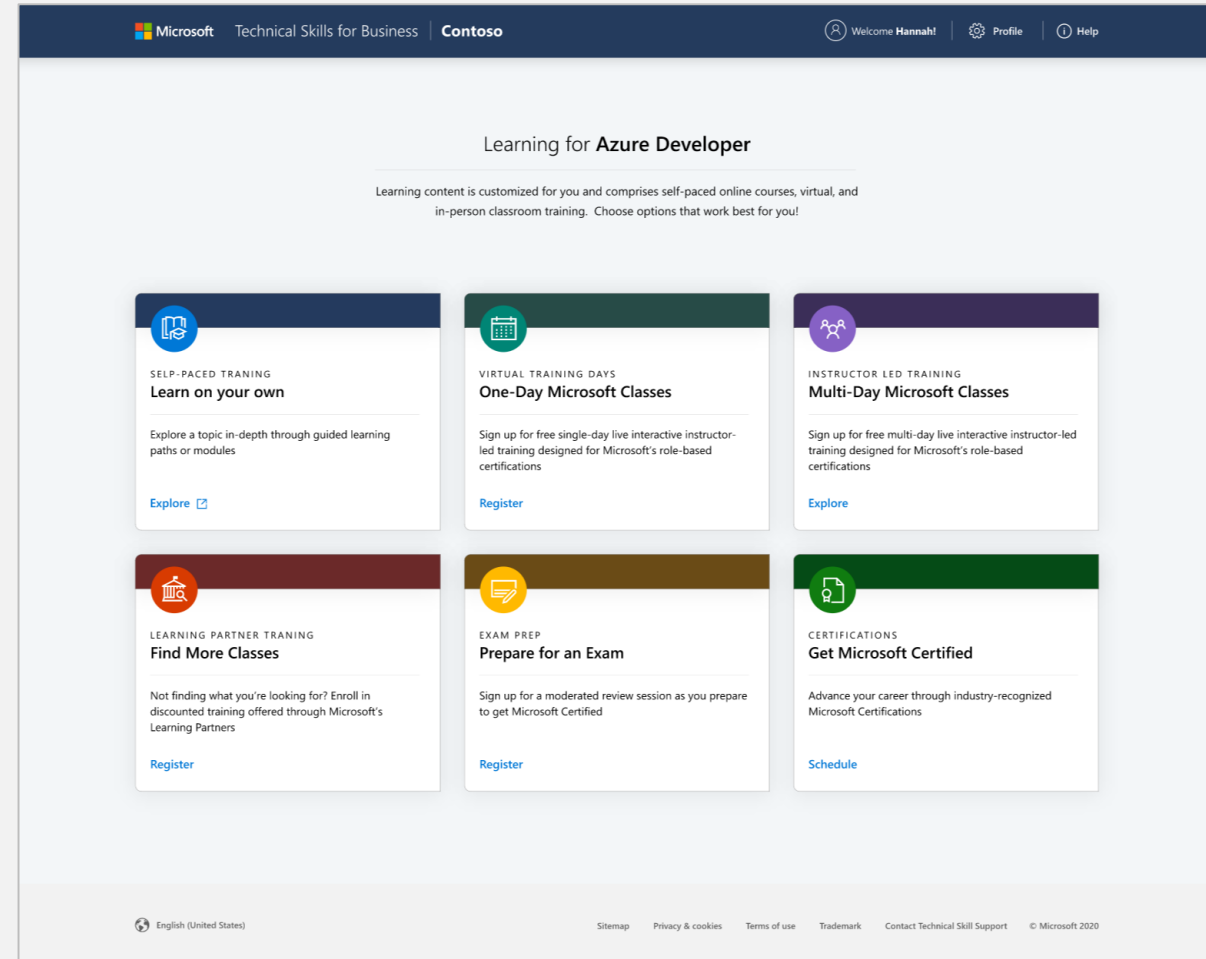
The ESI Portal (aka LxP –Learner Experience Portal)

Centralize all critical learning components into one portal and deliver the best possible Learner Experience for our customers

What does the ESI Portal give your Learners?



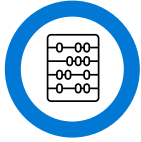
- Register for the latest live and interactive Instructor Led Training
- Access self-guided learning on MS Learn
- Find preferred Learning Partners for discounted offerings
- Discover free Certification Exams via a streamlined “Get Certified” experience



Learning Paths for Statistics Canada



Azure aligns to Industry Standard Roles



Data Scientist

The Azure Data Scientist applies their knowledge of data science and machine learning to implement and run machine learning workloads on Azure; in particular, using Azure Machine Learning Service.



Data Analyst

Data Analysts enable businesses to maximize the value of their data assets by using Microsoft Power BI



Administrator

Azure Administrators implement, monitor, and maintain Microsoft Azure solutions, including major services related to compute, storage, network, and security



Developer

Microsoft Azure Developers design, build, test, and maintain cloud solutions, such as applications and services, partnering with cloud solution architects, cloud DBAs, cloud administrators to implement these solutions.



Solution Architect

Microsoft Azure Solutions Architects must have expertise in compute, network, storage, and security so that they can design solutions that run on Azure.



AI Engineer

Azure AI Engineer include analyzing requirements for AI solutions, recommending the appropriate tools and technologies, and designing and implementing AI solutions that meet scalability and performance requirements.



DevOps Engineer

DevOps Engineers design and implement strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback.



Database Administrator

Azure Database Administrators implement and manage the operational aspects of cloud-native and hybrid data platform solutions built on Microsoft Azure data services and Microsoft SQL Server.



Data Engineer

Azure Data Engineers design and implement the management, monitoring, security, and privacy of data using the full stack of Azure data services to satisfy business needs.



Security Engineer

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

Role-based certifications (Data, Analytics & AI)

Azure Data Scientist



applies their knowledge of data science and machine learning to implement and run machine learning workloads on Azure; in particular, using Azure Machine Learning Service

- Set up an Azure Machine Learning workspace
- Manage a workspace by using Azure Machine Learning studio
- Run experiments and train models
- Determine appropriate compute requirements
- Optimize and manage models
- Deploy and consume models

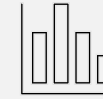
Azure Data Engineer

101010
010101
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Designs and implements the management, monitoring, security, and privacy of data using the full stack of Azure data services to satisfy business needs

- Implement data storage solutions
- Manage and develop data processing
- Monitor and optimize data solutions
- Design Azure data storage solutions
- Design data processing solutions
- Design for data security and compliance

Azure Data Analyst



Data Analysts enable businesses to maximize the value of their data assets by using Microsoft Power BI. They are responsible for designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value through easy-to-comprehend data visualizations.

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

Role-based certifications (Platform & Administration)

Azure Administrator



Implements, monitors, and maintains Microsoft Azure solutions, including major services related to compute, storage, network, and security

- Manage Azure subscriptions and resources
- Implement and manage storage
- Deploy and manage virtual machines (VM's)
- Configure and manage virtual networks
- Manage identities

Azure Developer



- Develop Azure Infrastructure as a Service compute solution
- Develop Azure Platform as a Service compute solution
- Develop for Azure storage
- Implement Azure security
- Monitor, troubleshoot, and optimize solutions
- Connect to and consume Azure and third-party services

Azure Security Engineer



Implements security controls and threat protection; manages identity and access; and protects data, applications, and networks in cloud and hybrid environments as part of end-to-end infrastructure

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

Azure Solutions Architect



Designs solutions that run on Azure with expertise in compute, network, storage, and security

- Deploy and configure infrastructure
- Implement workloads and security
- Create and deploy apps
- Implement authentication and secure data
- Develop for the cloud and for Azure storage
- Determine workload requirements
- Design for identity and security
- Design a data platform solution
- Design a business continuity strategy
- Design for deployment, migration, and integration
- Design an infrastructure strategy

Azure DevOps Engineer



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

- 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

Azure Database Administrator



Manage on-premises and cloud relational databases built on top of Microsoft SQL Server and Microsoft Azure data services.

- 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 and Disaster Recovery (HADR) environment
- Perform administration by using T-SQL

Azure AI Engineer



Analyzes requirements for AI solutions, recommending the appropriate tools and technologies, and designing and implementing AI solutions that meet scalability and performance requirements.

- Analyze solution requirements
- Select the appropriate AI models and services
- Identify processes and regulations needed to conform with data privacy, protection, and regulatory requirements
- Define an AI application workflow process
- Design a strategy for ingest and egress data
- Design the integration point between multiple workflows and pipelines
- Design AI solutions
- Implement and monitor AI solutions

Affichage des cours en français sur Microsoft Learn

Microsoft Learn

La majorité des cours sur la plateforme d'apprentissage Microsoft Learn sont disponibles en français.

Pour l'ensemble des liens dans ce document:
2 façons faciles de consulter le matériel en français

1 – Remplacer la partie de l'adresse web "en-ca/en-us" par fr-ca

2 – En bas de chaque page Microsoft, cliquez sur l'icône et choisissez Français-Canada:

https://docs.microsoft.com/en-us/learn/paths/az-900-describe-cloud-concepts/

Microsoft | Docs | Documentation | Learn | Q&A | Code Samples

Learn | Products | Roles | Learn TV | Certifications | FAQ & Help

Docs / Learn / Browse / Azure Fundamentals part 1: Describe core Azure concepts

Azure Fundamentals part 1: Describe core Azure concepts

https://docs.microsoft.com/fr-ca/learn/paths/az-900-describe-cloud-concepts/

Microsoft | Docs | Documentation | Learn | Q&A | Exemples de code

Learn | Products | Rôles | Learn TV | Certifications | FAQ et aide

Docs / Learn / Parcourir / Principes de base d'Azure - Première partie : Description des principaux concepts Azure

Principes de base d'Azure - Première partie : Description des principaux concepts Azure

1 h 36 min • Parcours d'apprentissage • 0 de 3 modules terminés

Débutant | Administrateur | Architecte Solutions | Développeur | Étudiant | Azure | Azure Resource Manager | Fond

Vous ne connaissez pas le cloud ? La série en six parties « Principes de base d'Azure » vous explique les concepts de base du cloud, vous propose une vue d'ensemble rationalisée de nombreux services, vous guide tout au long du déploiement de vos premiers services gratuitement, via des exercices pratiques.

À la fin de ce parcours d'apprentissage, vous pourrez :

- Comprendre les avantages du cloud computing dans Azure et comment il peut vous faire gagner du temps et de l'argent
- Expliquer les concepts du cloud tels que la haute disponibilité, la scalabilité, l'agilité, l'élasticité, la reprise d'activité après sinistre
- Décrire les principaux composants de l'architecture Azure, comme les abonnements, les groupes de ressources, les machines virtuelles et les services de stockage

Find a language

Select a language

Current selection: English (Canada)

Bahasa Indonesia
Dansk
English (Australia)
English (New Zealand)

Bahasa Melayu
Deutsch (Österreich)
English (Canada)
English (Singapore)
Español
Français (Suisse)
Íslenska
Lietuvių
Norsk Bokmål
Slovenčina
Tiếng Việt
한국어

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Describe core Azure architectural components

In this module, you'll examine the various concepts, resources, and terminology that are necessary to work with Azure architecture. For example, you'll learn about Azure subscriptions and management groups, resource groups and Azure Resource Manager, as well as Azure regions and availability zones.

English (Canada)

English (Canada) Theme

Previous Version Docs | Blog | Contribute | Privacy & cookies | Terms of Use | Trademarks | © Microsoft 2021

Foundational Knowledge – Azure Fundamentals



Foundational



Azure Fundamentals

Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.

- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
 - [Get started building with Power BI - Learn | Microsoft Docs](#)
 - [Create and use analytics reports with Power BI - Learn | Microsoft Docs](#)



Data Fundamentals

Start with [Azure Data Fundamentals](#) to gain foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. This is intended for candidates beginning to work with data in the cloud. This will make you familiar with the concepts of relational and non-relational data, and different types of data workloads such as transactional or analytical.

- Consider taking the [DP-900 Microsoft Azure Data Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
- [Data engineering with Azure Databricks - Learn | Microsoft Docs](#)



AI

The [AI-900 Fundamentals course](#) introduces fundamentals concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions. The course is not designed to teach students to become professional data scientists or software developers, but rather to build awareness of common AI workloads and the ability to identify Azure services to support them

Consider taking the [AI-900 Azure AI Fundamentals Exam](#) to validate your knowledge

Continue your learning journey

Put AI into Action with the [AI Business School for government](#)

In government, decision-makers must take into account specific public sector considerations before they can realize the true transformational power of AI. It's critical to understand the components of a strategy that will help the public sector create value with AI. This learning path is designed for government decision-makers to illustrate the true transformational impact of AI in the public sector.

Continue your learning journey through other role-based learning paths

- Data Analyst
- Data Scientist
- Data Engineer
- Database Administrator
- Developer
- Solution Architect
- Security Engineer
- IT Administrator
- AI Engineer
- DevOps Engineer

Additional resources

- [Introduction to Python - Learn | Microsoft Docs](#)
- [Windows Virtual Desktop documentation | Microsoft Docs](#)



LxP How To_AAD.pdf

Data Scientist | [Azure Data Scientist Certification](#)



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.

Foundational



Begin with building the foundation

Start with [Azure Data Fundamentals](#) to gain foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

This is intended for candidates beginning to work with data in the cloud.

This will make you familiar with the concepts of relational and non-relational data, and different types of data workloads such as transactional or analytical.

- Consider taking the [DP-900 Microsoft Azure Data Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
- [Data engineering with Azure Databricks - Learn | Microsoft Docs](#)
- [Get started building with Power BI - Learn | Microsoft Docs](#)
- [Create and use analytics reports with Power BI - Learn | Microsoft Docs](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Learning Resources for CAE \(curated by Microsoft Architects\)](#)
 - [Create no-code predictive models with Azure Machine Learning - Learn | Microsoft Docs](#)
 - [Create machine learning models - Learn | Microsoft Docs](#)
 - [Build AI solutions with Azure Machine Learning - Learn | Microsoft Docs](#)
 - [Create Power BI visuals using R - Power BI | Microsoft Docs](#)
- Explore supplemental content
- [Data integration at scale Azure Data Factory - Learn | Microsoft Docs](#)
 - [Perform data science with Azure Databricks - Learn | Microsoft Docs](#)



Attend Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers (3 days course) [Course DP-100T01-A: Designing and Implementing a Data Science Solution on Azure - Learn | Microsoft Docs](#)
- [Azure Data Scientist DP-100 - Exam](#)

Note: instructor-led classes are available :

- to Statistics Canada personnel at no-charge until June 30th, 2021
 - to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <http://esi.microsoft.com>



Prepare and register for an exam

- [Schedule your exam](#) – DP-100

Note

You can redeem free exam entitlements on the ESI portal at esi.microsoft.com ([instructions in this video](#))

Additional resources

- [Introduction to Python - Learn | Microsoft Docs](#)



LxP How To_AAD.pdf

Data Engineer | Azure Data Engineer Certification



This certification is a good fit if your responsibilities include:

- Provisioning data storage services.
- Ingesting streaming and batch data, and transforming data.
- Implementing security requirements and data retention policies.
- Identifying performance bottlenecks.
- Accessing external data sources.

Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn
- [Understand the evolving world of data](#)
 - [Microsoft Data Estate Migration and Modernization](#)
 - [Survey the services on the Azure Data platform Identify job tasks and roles in a cloud-data architecture](#)
 - [Provision an Azure SQL Database to store application data](#)
 - [Provision an Azure SQL Database for PostgreSQL](#)
 - [Scale Azure SQL Databases](#)
 - [Query data in Azure SQL Data Warehouse](#)
- [Get started building with Power BI - Learn | Microsoft Docs](#)
- [Create and use analytics reports with Power BI - Learn | Microsoft Docs](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Azure for the Data Engineer](#)
 - [Store data in Azure](#)
 - [Work with relational data in Azure](#)
 - [Work with NoSQL data in Azure Cosmos DB](#)
 - [Large Scale Data Processing with ADLS G2](#)
 - [Implement a Data Streaming Solution with Azure Stream Analytics](#)
 - [Implement a Data Warehouse with Azure SQL Data Warehouse](#)
 - [Build a modern data warehouse with Azure Databricks](#)
 - [Extract knowledge and insights from your data with Azure Databricks](#)
- Explore additional resources from Microsoft Cloud Workshops
 - [Intelligent Analytics](#)
 - [Big Data and Visualization](#)
 - [Cosmos DB Real-Time Advanced Analytics](#)
 - [Machine Learning](#)
 - [Cognitive Services and Deep Learning](#)



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers (can be delivered as 5 days course or stand alone tracks. The 2 exams are required for Data Engineer badge)
 - [Implementing an Azure Data Solution DP200 \(3 days\)](#)
 - [Designing an Azure Data solution DP201 \(2 days\)](#)
- Note:** instructor-led classes are :
- Available to Statistics Canada personnel at no-charge until June 30th, 2021
 - Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - Available to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <https://esi.microsoft.com>



Prepare and register for an exam

- Go to <https://aka.ms/DataAIAcademy> and a weekly exam prep session + complete lab practice
- Schedule your exams
 - [DP-200 – Register for exam](#)
 - [DP-201 – Register for exam](#)

Additional Community Support

- [Complete AI Business School](#)
- [Watch cloud transformation series webinars](#)
- [Complete Cloud Adoption Framework module on MS Learn](#)

Data Analyst | [Azure Data Analyst 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.

Foundational



Begin with building the foundation

Start with [Azure Data Fundamentals](#) to gain foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

This is intended for candidates beginning to work with data in the cloud.

This will make you familiar with the concepts of relational and non-relational data, and different types of data workloads such as transactional or analytical.

- Consider taking the [DP-900 Microsoft Azure Data Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
- [Get started building with Power BI - Learn | Microsoft Docs](#)
- [Create and use analytics reports with Power BI - Learn | Microsoft Docs](#)
- [Get data with Power BI Desktop - Learn | Microsoft Docs](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
- [Learning Resources for CAE \(curated by Microsoft Architects\)](#)
- [Create no-code predictive models with Azure Machine Learning - Learn | Microsoft Docs](#)
- [Create machine learning models - Learn | Microsoft Docs](#)
- [Build AI solutions with Azure Machine Learning - Learn | Microsoft Docs](#)
- [Create Power BI visuals using R - Power BI | Microsoft Docs](#)



Attend Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers (4 days course)
- [Course DA-100T00-A: Analyzing Data with Power BI - Learn | Microsoft Docs](#)
- [Azure Data Analyst DA-100 - Exam](#)

Note: instructor-led classes are :

- Available to Statistics Canada personnel at no-charge until June 30th, 2021
 - Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - Available to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <http://esi.microsoft.com>



Prepare and register for an exam

- [Schedule your exam](#) – DA-100

Note

You can redeem free exam entitlements on the ESI portal at esi.microsoft.com ([instructions in this video](#))

Additional resources

- [Introduction to Python - Learn | Microsoft Docs](#)



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Database Administrator | Azure Database Administrator Certification



This certification is a good fit if your responsibilities include:

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

Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) and/or the [DP-900 Data Fundamentals exam](#) to validate your knowledge
- Explore additional resources on /Learn if you need more fundamental knowledge in following areas
 - [Database Administrator Modules](#)
 - [Curated DBA Learning Collections \(by MS Cloud Architects\)](#)



Intermediate



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Azure for the Data Engineer](#)
 - [Store data in Azure](#)
 - [Work with relational data in Azure](#)
 - [Work with NoSQL data in Azure Cosmos DB](#)
 - [Large Scale Data Processing with ADLS G2](#)
 - [Implement a Data Streaming Solution with Azure Stream Analytics](#)
 - [Implement a Data Warehouse with Azure SQL Data Warehouse](#)
 - [Build a modern data warehouse with Azure Databricks](#)
 - [Extract knowledge and insights from your data with Azure Databricks](#)
- Explore additional resources from Microsoft Cloud Workshops
 - [Intelligent Analytics](#)
 - [Big Data and Visualization](#)
 - [Cosmos DB Real-Time Advanced Analytics](#)
 - [Machine Learning](#)
 - [Cognitive Services and Deep Learning](#)



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers
 - [Administering Relational Databases on Microsoft Azure](#)
- Note:** instructor-led classes are :
- Available to Statistics Canada personnel at no-charge until June 30th, 2021
 - Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - Available to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <http://esi.microsoft.com>



Advanced



Prepare and register for an exam

- Schedule your exam
 - [Schedule your DP-300 Exam](#)
- Note
- You can redeem free exam entitlements on the ESI portal at esi.microsoft.com ([instructions in this video](#))

Additional Community Support

- [Complete AI Business School](#)
- [Complete Cloud Adoption Framework module on MS Learn](#)

Developer | [Azure Developer Certification](#)



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



Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources
 - [Introduction to Mobile Apps in Azure App Service](#)
 - [Introduction to Azure Kubernetes Service](#)
 - [Prepare your development environment for Azure Development](#)
 - [Core Cloud Services – Introduction to Azure](#)
 - [Introduction to Azure Search](#)
 - [Introduction to Azure Logic Apps](#)
 - [Scale an App Service web app to efficiently meet demand with App Service scale up and scale out](#)
 - [Choose the appropriate Azure service to integrate and automate business processes](#)
 - [Host a web application with Azure App Service](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Create serverless applications](#)
 - [Connect your services together](#)
 - [Store data in Azure](#)
 - [Work with relational data in Azure](#)
 - [Deploy a website with Azure virtual machines](#)
 - [Manage resources in Azure](#)
 - [Deploy a website to Azure with Azure App Service](#)
 - [Secure your cloud data](#)
 - [Secure your application with OpenID Connect and Azure AD](#)
 - [Control authentication for your APIs with Azure API Management](#)



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers

[Azure Developer AZ-204 \(5 days\)](#)

Note: instructor-led classes are :

- Available to Statistics Canada personnel at no-charge until June 30th, 2021
 - Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - Available to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <http://esi.microsoft.com>



Prepare and register for an exam

- [Schedule your exam](#) – AZ 204

Note

You can redeem free exam entitlements on the ESI portal at esi.microsoft.com ([instructions in this video](#))

Additional Resources

IT Administrator | [Azure Administrator Certification](#)



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.

Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
 - [Manage resources in Azure](#)
 - [Store data in Azure](#)
 - [Administer infrastructure resources in Azure](#)
 - [Secure your cloud data](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Optimize storage performance and costs using Blob storage tiers](#)
 - [Gather metrics from your Azure Blob Storage containers](#)
 - [Move large amounts of data to the cloud by using Azure Data Boxfamily](#)

Explore supplemental content



Attend Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers (4 days course)
- [Azure Administrator AZ-104](#)

Note: instructor-led classes are :

- Available to Statistics Canada personnel at no-charge until June 30th, 2021
- Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
- Available to external users at their own expense when their organization has no ESI agreement with Microsoft.

<http://esi.microsoft.com>



Prepare and register for an exam

- [Schedule your exam](#) – AZ -104

Additional resources

Security Engineer | [Azure Security Engineer Certification](#)



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 incidents/escalations.

Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
 - [Manage resources in Azure](#)
 - [Store data in Azure](#)
 - [Administer infrastructure resources in Azure](#)
 - [Secure your cloud data](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through /Learn learning paths to prepare you on key topics related to the certification exam, for example:
 - [Secure your cloud applications in Azure - Learn | Microsoft Docs](#)
 - [Implement resource management security in Azure - Learn | Microsoft Docs](#)
 - [Implement network security in Azure - Learn | Microsoft Docs](#)
 - [Implement virtual machine host security in Azure - Learn | Microsoft Docs](#)
- Explore supplemental content
- [Manage identity and access in Azure Active Directory - Learn | Microsoft Docs](#)



Attend Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers (4 days course)
- [Azure Security Engineer](#)

Note: instructor-led classes are :

- Available to Statistics Canada personnel at no-charge until June 30th, 2021
- Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
- Available to external users at their own expense when their organization has no ESI agreement with Microsoft.

<http://esi.microsoft.com>



Prepare and register for an exam

- [Schedule your exam](#) – AZ -500

Additional resources

IT Solution Architect | Azure Solutions Architect Expert



This certification is a good fit if your responsibilities include:

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



Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge
- Explore additional resources on /Learn to build your fundamental knowledge:
 - [Manage resources in Azure](#)
 - [Architect great solutions in Azure](#)
 - [Extract knowledge and insights from your data with Azure Databricks](#)
 - [Perform data engineering with Azure Databricks](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- Go through following learning paths to prepare you on key topics related to the certification exam, for example:
 - [Build great solutions with the Microsoft Azure Well-Architected Framework - Learn | Microsoft Docs](#)
 - [Architect modern applications in Azure learning path - Learn | Microsoft Docs](#)
 - [Architect migration, business continuity, and disaster recovery in Azure learning path - Learn | Microsoft Docs](#)



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers
 - [Azure Solution Architect Technologies AZ-303 \(5 days\)](#)
 - [Azure Solution Architect Design AZ-304 \(4 days\)](#)
- Note:** instructor-led classes are :
- Available to Statistics Canada personnel at no-charge until June 30th, 2021
 - Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
 - Available to external users at their own expense when their organization has no ESI agreement with Microsoft.
- <http://esi.microsoft.com>



Prepare and register for an exam

- Schedule your exams
 - [AZ-303 – schedule exam](#)
 - [AZ-304 – schedule exam](#)

Additional Resources

AI Engineer | [Azure AI Engineer Associate](#)



This certification is a good fit if your responsibilities include:

- Analyzing requirements for AI solutions and recommending appropriate tools and technologies.
- Designing and implementing AI solutions that meet scalability and performance requirements.



Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge

New to AI on Azure?

Choose Azure AI Fundamentals training

- [Get started building with Power BI - Learn | Microsoft Docs](#)
- [Create and use analytics reports with Power BI - Learn | Microsoft Docs](#)



Go deep on specific modules

- Go through following learning paths to prepare you on key topics related to the certification exam, for example:
- [Evaluate text with Azure Cognitive Language Services](#)
- [Process and Translate Speech with Azure Cognitive Speech Services](#)
- [Create Intelligent Bots with the Azure Bot Service](#)
- [Process and classify images with the Azure Cognitive Vision Services](#)



Advanced Role-Based Training and Certification



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers
- [Designing and Implementing an Azure AI Solution](#)
- [AI-100T01 | 3 days](#)

Note: instructor-led classes are :

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Prepare and register for an exam

- Schedule your exam
- [Azure AI Engineer Associate](#)

Additional Resources

Put AI into Action with the [AI Business School for government](#)

DevOps Engineer | [Azure DevOps Engineer Associate](#)



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.



Foundational



Begin with building the foundation

- Start with [Azure Fundamentals](#) learning path to learn basic cloud concepts, understand the benefits of cloud computing in Azure, basic strategies for transitioning to the Azure cloud, and explore the breadth of services available in Azure.
- Consider taking the [AZ900 Microsoft Azure Fundamentals Exam](#) to validate your knowledge

New to DevOps

[Evolve your DevOps practices learning path - Learn | Microsoft Docs](#)

[Build applications with Azure DevOps learning path - Learn | Microsoft Docs](#)



Advanced Role-Based Training and Certification



Go deep on specific modules

- [AZ-400: Develop an instrumentation strategy - Learn | Microsoft Docs](#)
- [AZ-400: Develop a Site Reliability Engineering \(SRE\) strategy - Learn | Microsoft Docs](#)
- [AZ-400: Develop a security and compliance plan - Learn | Microsoft Docs](#)
- [AZ-400: Define and implement continuous integration - Learn | Microsoft Docs](#)



Join Virtual Instructor Led Training (VILT)

- Join virtual instructor led training (VILT) sessions delivered by Microsoft Certified Trainers

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

Note: instructor-led classes are :

- Available to Statistics Canada personnel at no-charge until June 30th, 2021
- Available to external users at the cost agreed in an ESI agreement between their organization and Microsoft.
- Available to external users at their own expense when their organization has no ESI agreement with Microsoft. <http://esi.microsoft.com>



Prepare and register for an exam

- Schedule your exams

Microsoft Certified:

[Azure DevOps Engineer Expert](#)

Note

You can redeem free exam entitlements on the ESI portal at esi.microsoft.com ([instructions in this video](#))

Additional Resources

Resources

Enterprise Skills Initiative Portal

aka.ms/PracticeTests

Microsoft Learn

Microsoft.com/Learn

ESI Support Portal

esisupport.microsoft.com

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

Learning Partners

aka.ms/LearningPartners

Microsoft Learn Support

aka.ms/LearnFAQ

Certification Support

aka.ms/MCPForum

Microsoft Azure courses (1)

Certification	Role Description	Exam	Skills Measured	Microsoft Official Course	MOC duration
Azure Administrator Associate	Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment	AZ-104: Microsoft Azure Administrator	https://aka.ms/az-104examguide	AZ-104T00: Microsoft Azure Administrator	4 days
				AZ-010T00: Azure Administrator for AWS SysOps	2 days
Azure AI Engineer Associate	Azure AI Engineers use cognitive services, machine learning, and knowledge mining to architect and implement Microsoft AI solutions involving natural language processing, speech, computer vision, and conversational AI	AI-100: Designing and Implementing an Azure AI Solution	http://aka.ms/ai-100examguide	AI-100T01: Designing and Implementing an Azure AI Solution	3 days
Azure Data Engineer Associate	Azure Data Engineers design and implement the management, monitoring, security, and privacy of data solutions using the full stack of Microsoft Azure data services	DP-200: Implementing an Azure Data Solution	http://aka.ms/dp-200examguide	DP-200T01: Implementing an Azure Data Solution	3 days
		DP-201: Designing an Azure Data Solution	http://aka.ms/d-201examguide	DP-201T01: Designing an Azure Data Solution	2 days
Azure Data Scientist Associate	Azure Data Scientists implement and run machine learning workloads on Microsoft Azure Machine Learning	DP-100: Designing and Implementing a Data Science Solution on Azure	http://aka.ms/dp-100examguide	DP-100T01: Designing and Implementing a Data Science solution on Azure	3 days
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	DP-300: Administering Relational Databases on Microsoft Azure	http://aka.ms/dp-300examguide	DP-300T00: Administering Relational Databases on Microsoft Azure	4 days
Azure Developer Associate	Azure Developers design, build, test, and maintain cloud applications and services	AZ-204: Developing Solutions for Microsoft Azure	http://aka.ms/az-204examguide	AZ-204T00: Developing Solutions for Microsoft Azure	5 days
				AZ-020T00: Microsoft Azure solutions for AWS Developers	3 days

Microsoft Azure courses (2)

Certification	Role Description	Exam	Skills Measured	Microsoft Official Course	MOC duration
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	AZ-120: Planning and Administering Microsoft Azure for SAP Workloads	http://aka.ms/az-120examguide	AZ-120T00: Planning and Administering Microsoft Azure for SAP Workloads	4 days
Azure IoT Developer Specialty	Azure IoT Developers develop cloud and edge components of an Azure IoT solution	AZ-220: Microsoft Azure IoT Developer	http://aka.ms/az-220examguide	AZ-220T00: Microsoft Azure IoT Developer	4 days
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	AZ-500: Microsoft Azure Security Technologies	http://aka.ms/az-500examguide	AZ-500T00: Microsoft Azure Security Technologies	5 days
Azure Solution Architect Expert	Azure Solution Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security	AZ-303: Microsoft Azure Architect Technologies	http://aka.ms/az-303examguide	AZ-303T00: Microsoft Azure Architect Technologies	5 days
				AZ-030T00: Microsoft Azure technologies for AWS architects	4 days
		AZ-304: Microsoft Azure Architect Design	http://aka.ms/az-304examguide	AZ-304T00: Microsoft Azure Architect Design	4 days
Data Analyst Associate	Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI	DA-100: Analyzing Data with Microsoft Power BI	http://aka.ms/da-100examguide	DA-100T00: Analyzing Data with Microsoft Power BI	5 days
DevOps Engineer Expert	DevOps Engineers work with people, processes, and technologies to continuously deliver business value	AZ-400: Designing and Implementing Microsoft DevOps solutions	http://aka.ms/az-400examguide	AZ-400T00: Designing and Implementing Microsoft DevOps Solutions	5 days

Microsoft Azure courses not certification-specific

Microsoft Official Course	Role Description	Recommended for role	MOC duration
Course WS-013T00: Azure Stack HCI	This three-day course is intended primarily for IT Professionals who already have significant experience with managing an on-premises Windows Server environment. Its purpose is to cover advanced topics related to Windows Server software-defined datacenter, Azure Stack HCI, and other Azure Stack products	Azure Administrator	3 days
Course WS-012T00: Windows Server 2019 Hybrid and Azure IaaS	This three-day course is intended primarily for IT Professionals who have experience with managing an on-premises Windows Server environment. Its purpose is to prepare professionals for planning, implementing, and managing environments that include Azure IaaS-hosted Windows Server-based workloads	Azure Administrator	3 days
Course WS-050T00: Migrating Application Workloads to Azure	This workshop teaches IT Professionals how to migrate existing on-premises workloads and assets to the cloud, specifically to the Microsoft Azure platform.	Azure Administrator	2 days
Course DP-050T00: Migrate SQL workloads to Azure	In this course, the students will explore the objectives of data platform modernization and how it is suitable for given business requirements. They will also explore each stage of the data platform modernization process and define what tasks are involved at each stage, such as the assessment and planning phase	Azure Database Administrator	2 days
Course DP-060T00: Migrate NoSQL workloads to Azure Cosmos DB	This course will teach the students what is Cosmos DB and how you can migrate MongoDB and Cassandra workloads to Cosmos DB	Azure Database Administrator	1 day
Course DP-070T00: Migrate Open Source Data Workloads to Azure	This course will enable the students to understand Azure SQL Database, and educate the students on what is required to migrate MySQL and PostgreSQL workloads to Azure SQL Database	Azure Database Administrator	1 day

**Coming soon*