TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC
Address: 103 Pasteur, Dist.1, HCMC
Tel: 08 38245819; 38239761
Email: traincert@tdt-tanduc.com
Website: www.tdt-tanduc.com; www.tanducits.com

Let's Reach For Excellence!

AZ-900: Microsoft Azure Fundamentals (2 Days)

Duration: *02 days*

This two-day course will provide foundational level knowledge on core Azure concepts; core Azure services; core solutions and management tools; general security and network security; governance, privacy, and compliance features; Azure cost management and service level agreements.

Note: This course provides an Azure pass and time for students to participate in hands-on labs. If you do not need hands-on experience, consider the AZ-900T01: Microsoft Azure Fundamentals (1 day) course. The content for both courses align to the AZ-900 exam objective domain.

AUTODESK Authorized Training
Microsoft Silver Learning
amazon web services Partner Network Authorized Training
SOLIDWORKS Authorized Training
Accredited Training Center EC-Council
PEARSON VUE-Authorized Test Center
KRYTERION GLOBAL TESTING SOLUTIONS

AUDIENCE

This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal to create services and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator. This course provides an Azure pass and optional lab environment. This course combines lecture, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam.

Job role: Administrator

Preparation for exam: AZ-900

Features: none

PREREQUISITES

There are no prerequisites for taking this course. Familiarity with cloud computing is helpful, but isn't necessary.

COURSE OUTLINE

Module 1: Cloud Concepts

In this module, you'll take an entry level end-to-end look at Azure and its capabilities, which will provide you with a solid foundation for completing the available modules for Azure Fundamentals.

Lessons

- Introduction to Azure fundamentals
- Fundamental Azure concepts

After completing this module, students will be able to:

- Understand the benefits of cloud computing in Azure and how it can save you time and money
- Explain concepts such as high availability, scalability, elasticity, agility, and disaster recovery

Module 2: Core Azure Services

In this module, you learn about core Azure services like Azure database, Azure compute, Azure storage, and Azure Networking.

Lessons

- Core Azure Architectural components
- Core Azure workload products
- Azure networking services
- Azure storage services
- Azure database services

After completing this module, students will be able to:

- Describe core Azure architecture components such as subscriptions, management groups, and resources
- Summarize geographic distribution concepts like Azure regions, region pairs, and availability zones
- Understand services available in Azure including compute, network, storage, and database
- Identify services such as Azure Virtual Machines, Azure Container Instances, and Azure Kubernetes
- Compare Azure's database services such as Azure Cosmos DB, Azure SQL, and Azure Database for MySQL
- Examine Azure networking resources such as Virtual Networks, VPN Gateways, and Azure ExpressRoute
- Summarize Azure storage services such Azure Blob Storage, Azure Disk Storage, and Azure File Storage

Module 3: Core Solutions

In this module, you'll learn about AI machine learning, Azure DevOps, monitoring fundamentals, management fundamentals, serverless computing fundamentals. and IoT fundamentals.

Lessons

- Choose the best Azure IoT service
- Choose the best AI service
- Choose the best Azure serverless technology
- Choose the best tools with DevOps and GitHub
- Choose the best management tools
- Choose the best Azure monitoring service

After completing this module, students will be able to:

- Choose the correct Azure Artificial Intelligence service to address different business challenges
- Choose the best software development process tools and services for a given business scenario
- Choose the correct cloud monitoring service to address different kinds of business challenges
- Choose the correct Azure management tool to address different technical needs and challenges
- Choose the right serverless computing technology for your business scenario
- Choose the best Azure IoT service for a given business scenario

Module 4: General security and networking features

In this module, you will learn how to protect yourself against security threats, and secure your networks with Azure.

Lessons

- Security Tools and Features
- Secure Network Connectivity

After completing this module, students will be able to:

- Strengthen your security posture and protect against threats by using Microsoft Defender for Cloud
- Collect and act on security data from many different sources by using Microsoft Sentinel
- Manage dedicated physical servers to host your Azure VMs by using Azure Dedicated Host
- Identify the layers that make up a defense in depth strategy
- Explain how Azure Firewall enables you to control what traffic is allowed on the network
- Configure network security groups to filter network traffic to and from Azure resources
- Explain how Azure DDoS Protection helps protect your Azure resources from DDoS attacks

Module 5: Identity, Governance, Privacy, and Compliance

In this module, you will learn about Azure identity services, how to build a cloud governance strategy, and privacy, compliance, and data protection standards on Azure.

Lessons

- Core Azure identity services
- Azure Governance Methodologies
- Privacy, Compliance, and Data Protection standards

After completing this module, students will be able to:

- Explain the difference between authentication and authorization
- Describe how Azure Active Directory provides identity and access management
- Explain the role single sign-on (SSO), multifactor authentication, and Conditional Access play
- Make organizational decisions about your cloud environment by using the CAF for Azure
- Define who can access cloud resources by using Azure role-based access control
- Apply a resource lock to prevent accidental deletion of your Azure resources
- Apply tags to your Azure resources to help describe their purpose
- Control and audit how your resources are created by using Azure Policy
- Enable governance at scale across multiple Azure subscriptions by using Azure Blueprints

- Explain the types of compliance offerings that are available on Azure
- Gain insight into regulatory standards and compliance on Azure
- Explain Azure capabilities that are specific to government agencies

Module 6: Azure Pricing and Lifecycle

In this module, you will learn how to plan and manage Azure costs, and how to choose the right Azure services though SLAs and service lifecycle.

Lessons

- Planning and Cost Management
- Azure Service Level Agreements (SLAs)

After completing this module, students will be able to:

- Use the Total Cost of Ownership Calculator
- Describe the different ways you can purchase Azure products and services
- Use the Pricing calculator to estimate the monthly cost of running your cloud workloads
- Define the major factors that affect total cost and apply recommended practices to minimize cost
- Describe what a service-level agreement (SLA) is and why SLAs are important
- Identify factors, such as the service tier you choose, that can affect an SLA
- Combine SLAs to compute a composite SLA
- Describe the service lifecycle in Azure