# WUVN

## **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

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### Microsoft AZ-104: Microsoft Azure Administrator

CODE:	LENGTH:	PRICE:

MCS AZ104T00 32 Hours (4 days) €2,650.00

#### Description

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

### Audience

This course is for Azure Administrators. The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment. The Azure Administrator will provision, size, monitor, and adjust resources as appropriate.

### Prerequisites

Successful Azure Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

•Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.

•Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.

•Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).

•Understanding of resilience and disaster recovery, including backup and restore operations.

### Programme

#### Module 1: Identity

In this module, you will learn how to secure identities with Azure Active Directory, and implement users and groups.

Lessons

After completing this module, students will be able to: Secure and manage identities with Azure Active Directory.

Azure Active Directory

•Users and Groups Lab : Manage Azure Active Directory Identities •Implement and manage users and groups.

#### Module 2: Governance and Compliance

In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.

Lessons

Subscriptions and Accounts

Azure Policy

•Role-based Access Control (RBAC) Lab : Manage Subscriptions and RBAC Lab : Manage Governance via Azure Policy After completing this module, students will be able to:

•Implement and manage Azure subscriptions and accounts.

•Implement Azure Policy, including custom policies.

Use RBAC to assign permissions.

#### Module 3: Azure Administration

In this module, you will learn about the tools an Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates. This module includes:

Lessons Azure Resource Manager

Azure Portal and Cloud Shell

Azure PowerShell and CLI

ARM Templates

Lab : Manage Azure resources by Using the Azure Portal Lab : Manage Azure resources by Using ARM Templates Lab : Manage Azure resources by Using Azure PowerShell After completing this module, students will be able to:

•Leverage Azure Resource Manager to organize resources.

•Use the Azure Portal and Cloud Shell.

•Use Azure PowerShell and CLI.

Lab : Manage Azure resources by Using Azure CLI •Use ARM Templates to deploy resources.

#### Module 4: Virtual Networking

In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS.

security groups, Azure Firewall, and Azure DNS. Lessons After completing this module, students will be able to: •Implement virtual networks and subnets. Virtual Networks •IP Addressing •Configure public and private IP addressing. Network Security groups •Configure network security groups. •Azure Firewall ·Configure Azure Firewall. Azure DNS Lab : Implement Virtual Networking •Configure private and public DNS zones. **Module 5: Intersite Connectivity** In this module, you will learn about intersite connectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections. Lessons After completing this module, students will be able to: VNet Peering •Configure VNet Peering. •VPN Gateway Connections •Configure VPN gateways. •ExpressRoute and Virtual WAN Lab : Implement Intersite Connectivity •Choose the appropriate intersite connectivity solution. Module 6: Network Traffic Management In this module, you will learn about network traffic strategies including network routing and service endpoints, Azure Load Balancer, Azure Application Gateway, and Traffic Manager. Lessons •Network Routing and Endpoints •Azure Load Balancer Azure Application Gateway •Traffic Manager Lab : Implement Traffic Management After completing this module, students will be able to: •Configure network routing including custom routes and service endpoints. Configure an Azure Load Balancer. Configure and Azure Application Gateway. •Choose the appropriate network traffic solution. Module 7: Azure Storage In this module, you will learn about basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools. Lessons After completing this module, students will be able to: Storage Accounts •Create Azure storage accounts. Blob Storage ·Configure blob containers. Storage Security •Secure Azure storage. Azure Files and File Sync •Configure Azure files shares and file sync. Lab : Manage Azure storage •Manage storage with tools such as Storage Explorer. •Managing Storage Module 8: Azure Virtual Machines In this module, you will learn about Azure virtual machines including planning, creating, availability and extensions. Lessons After completing this module, students will be able to: •Virtual Machine Planning •Plan for virtual machine implementations. •Creating Virtual Machines •Create virtual machines. •Virtual Machine Availability •Configure virtual machine availability, including scale sets. •Virtual Machine Extensions Lab : Manage virtual machines •Use virtual machine extensions. Module 9: Serverless Computing In this module, you will learn administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes. Lessons Azure App Service Plans Azure App Service Container Services •Azure Kubernetes Service Lab : Implement Web Apps Lab : Implement Azure Container Instances After completing this module, students will be able to: ·Create an app service plan. ·Create a web app. •Implement Azure Container Instances. Lab : Implement Azure Kubernetes Service • Implement Azure Kubernetes Service. Module 10: Data Protection Lessons •File and Folder Backups In this module, you will learn about backing up files and folders, and virtual machine backups. •Virtual Machine Backups After completing this module, students will be able to: ·Backup and restore file and folders. Lab : Implement Data Protection •Backup and restore virtual machines. Module 11: Monitoring

In this module, you will learn about monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.

- After completing this module, students will be able to:
- Azure Monitor

Lessons

•Use Azure Monitor. •Create Azure alerts.

- •Azure Alerts •Log Analytics
  - og Analytics •Query using Log Analytics.
- •Network Watcher Lab : Implement Monitoring •Use Network Watcher.

### **Session Dates**

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
29 Apr 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
20 May 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
03 Jun 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
17 Jun 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
01 Jul 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
15 Jul 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
12 Aug 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
09 Sep 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
23 Sep 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
07 Oct 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
21 Oct 2024	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€2,650.00
04 Nov 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,650.00
18 Nov 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,650.00
02 Dec 2024	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,650.00

### **Additional Information**

This training is also available as onsite training. Please contact us to find out more.