Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com
Phone: +31 20 582 6109

Microsoft **AZ-103: Microsoft Azure Administrator**

CODE:	LENGTH:	PRICE:
MCS_AZ103	32 Hours (4 days)	€2,200.00

Description

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

Objectives

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

Audience

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.

Prerequisites

- 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: Azure Administration
In this module, you'll learn about to tooling Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, Resource Manager, and Resource Manager Templates. The demonstrations in this module will ensure you are successful in the course labs.
Lessons
• Azure Portal and Cloud Shell
• Azure PowerShell and CLI
• Resource Manager
• ARM Templates   **Module 2: Azure Virtual Machines**
In this module, you'll learn about Azure virtual machines including planning, creating, availability and extensions.
Lessons
• Virtual Machine Planning
• Creating Virtual Machines
• Virtual Machine Availability
• Virtual Machine Extensions Lab : Deploy and Manage Virtual Machines Lab : Virtual Machines and Scale Sets
Module 3: Azure Storage
In this module, you'll learn about basic storage features including storage accounts, blob storage, Azure files, and storage security.

Lessons
• Storage Accounts
• Azure Blobs
• Azure Files
• Storage Security   Lab : Implement and Manage Storage **Module 4: Virtual Networking**

In this module, you'll learn about basic virtual networking concepts like virtual networks, IP addressing, Azure DNS, and network security groups.
Lessons
• Virtual Networks
• IP Addressing and Endpoints
• Azure DNS
• Network Security Groups   Lab : Configure Azure DNS **Module 5: Intersite Connectivity**

In this module, you'll learn about intersite connectivity features including VNet Peering, VNet-to-VNet connections, Site-to-Site Connections, and ExpressRoute.
Lessons
•VNet Peering
•VNet-to-VNet Connections
•ExpressRoute Connections Lab : VNet Peering and Service Chaining **Module 6: Monitoring**

In this module, you'll learn about monitoring your Azure infrastructure including Azure Monitor, alerting, log analytics, and Network Watcher.
Lessons
•Azure Monitor
•Azure Alerts
•Log Analytics
•Network Watcher Lab : Network Watcher **Module 7: Data Protection**

In this module, you'll learn about data replication strategies, backing up files and folders, and virtual machine backups.
Lessons
•Data Replication
•File and Folder Backups
•Virtual Machine Backups Lab : Azure Site Recovery Between Regions **Module 8: Network Traffic Management**

In this module, you'll learn about network traffic strategies including service endpoints, network routing, Azure Load Balancer, and Azure Traffic Manager.
Lessons
•Network Routing
•Azure Load Balancer
•Azure Traffic Manager Lab : Load Balancer and Traffic Manager **Module 9: Azure Active Directory**

In this module, you'll learn about Azure Active Directory (AD) including Azure AD Connect and Azure AD Join.
Lessons
•Azure Active Directory
•Azure AD Connect
•Azure AD Join   Lab : Implement Directory Synchronization **Module 10: Securing Identities**

In this module, you'll learn how to secure identities including Multi-Factor Authentication, Azure AD Identity Protection, and Self-Service Password Reset.
Lessons
•Multi-Factor Authentication
•Azure AD Identity Protection
•Self-Service Password Reset Lab : Azure AD Identity Protection Lab : Self-Service Password Reset
Module 11: Governance and Compliance

In this module, you'll learn about managing your subscriptions and accounts including role-based access control, users and groups, and Azure policy.
Lessons
•Subscriptions and Accounts
•Role-Based Access Control (RBAC)
•Users and Groups
•Azure Policy   Lab : Role-Based Access Control Lab : Governance and Compliance
Module 12: Data Services

In this module, you'll learn how to effectively share data using Import and Export service, Data Box, Content Delivery Network, and File Sync.
Lessons
•Content Delivery Network
•File Sync
•Import and Export Service
•Data Box   Lab : File Sync

Test and Certification

Microsoft Azure Administrator

Session Dates

On request. Please <u>contact us</u>

Additional Information

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