Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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Microsoft Azure Administrator - Arrow Flex Expert

CODE:	LENGTH:	PRICE:
MCS_AZ104FLEXEX	16 Hours (2 days)	€1,690.00

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.
"Arrow Flex" is the blended learning solution developed by Arrow. It is the solution for IT-/ Cloud- experienced technicians.
"Arrow Flex Expert" separates the theoretical content from the practical exercises of the official Microsoft course. Within two days of instructor led training via Virtual Classroom (VCL), you will learn the theory and concepts of the curriculum.
In the following self-paced learning phase you will work on all practical labs and exercises on your own. Afterwards, you can check your knowledge and prepare for the exam at your own pace with our Arrow Challenge Labs.

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
•Azure Active Directory
•Users and Groups
Lab : Manage Azure Active Directory Identities
After completing this module, students will be able to:
•Secure and manage identities with Azure Active Directory.
•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.

Lessons
•Virtual Networks
•IP Addressing
•Network Security groups
•Azure Firewall
•Azure DNS Lab : Implement Virtual Networking
After completing this module, students will be able to:
•Implement virtual networks and subnets.
•Configure public and private IP addressing.
•Configure network security groups.
•Configure Azure Firewall.
•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
•VNet Peering
•VPN Gateway Connections
•ExpressRoute and Virtual WAN Lab : Implement Intersite Connectivity
After completing this module, students will be able to:
•Configure VNet Peering.
•Configure VPN gateways.
•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
•Storage Accounts
•Blob Storage
•Storage Security
•Azure Files and File Sync
•Managing Storage Lab : Manage Azure storage
After completing this module, students will be able to:
•Create Azure storage accounts.
•Configure blob containers.
•Secure Azure storage.
•Configure Azure files shares and file sync.
•Manage storage with tools such as Storage Explorer.

Module 8: Azure Virtual Machines

In this module, you will 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 : Manage virtual machines
After completing this module, students will be able to:
•Plan for virtual machine implementations.
•Create virtual machines.
•Configure virtual machine availability, including scale sets.
•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.
Lessons After completing this module, students will be able to:
•Azure Monitor •Use Azure Monitor.
•Azure Alerts •Create Azure alerts.
•Log Analytics •Query using Log Analytics.
•Network Watcher Lab : Implement Monitoring •Use Network Watcher.

Further Information

What you will get in the Arrow Flex Expert course:

- 2 Days of instructor led training

covering the theoretical content of the course

- Official Microsoft courseware
  (MOC)
- 180 days access to MOC-LABS

for flexible, self-paced working on all practical exercises

- 365 days access to Arrow IT-Challenges

for proving your state of knowledge and preparation for the exam

- 2 exam voucher

for the certification with second shot opportunity

- Optional
  : additional mentoring-day available

in case you need more help in your self-paced learning phase
You will get access to the courseware and MOC-Labs one week prior to the start of the two days of instructor-led training. We recommend strongly to prepare on the main topics of the course-modules within this week.

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

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