

VERSION

2.6

SR. CODE

EAPL/CRASH/CRTC24

COURSE CODE

EACAF

SUB CATEGORY

NETWORKING & SECURITY



TOTAL DURATION

45
HOURS



THEORY TAKEN

10
HOURS



PRACTICAL TAKEN

35
HOURS

ELYSIUM
ACADEMY
MICROSOFT
AZURE
FUNDAMENTALS
(AZ-900)
**ELYSIUM
ACADEMY
MICROSOFT
AZURE
FUNDAMENTALS
(AZ-900)**
ELYSIUM
ACADEMY
MICROSOFT
AZURE

COURSE DESCRIPTION



The primary goal of Microsoft Azure Fundamentals is to give a comprehensive understanding of the fundamental elements of the Azure cloud platform. There are almost 200 products and services in the Azure portfolio, ranging from web services to AI and machine intelligence.

COURSE GOALS



A Microsoft Azure Fundamentals can enable you to pursue a wide range of career options. A developer, a solution architect, or a cloud architect may all be trained.

FUTURE SCOPE



Cloud computing is quickly extending into almost all areas of business. It, therefore, creates new career opportunities. Such opportunities encompass a wide range of roles ranging from architects and developers to data scientists and security professionals.

01

CHAPTER

CLOUD COMPUTING

- a. Define cloud computing
- b. Describe the shared responsibility model
- c. Define cloud models, including public, private, and hybrid
- d. Identify appropriate use cases for each cloud model
- e. Describe the consumption-based model
- f. Compare cloud pricing models



1.5
HRS



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02

CHAPTER

THE BENEFITS OF USING CLOUD SERVICES

- a. Describe the benefits of high availability and scalability in the cloud
- b. Describe the benefits of reliability and predictability in the cloud
- c. Describe the benefits of security and governance in the cloud
- d. Describe the benefits of manageability in the cloud



01
HRS



01
HRS

03

CHAPTER

CLOUD SERVICE TYPES

- a. Describe infrastructure as a service (IaaS)
- b. Describe platform as a service (PaaS)
- c. Describe software as a service (SaaS)
- d. Identify appropriate use cases for each cloud service (IaaS, PaaS, SaaS)



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04

CHAPTER

THE CORE ARCHITECTURAL COMPONENTS OF AZURE

- a. Describe Azure regions, region pairs, and sovereign regions
- b. Describe availability zones
- c. Describe Azure datacenters
- d. Describe Azure resources and resource groups
- e. Describe subscriptions
- f. Describe management groups
- g. Describe the hierarchy of resource groups, subscriptions, and management groups



1.5
HRS



3.5
HRS

05

CHAPTER

AZURE COMPUTE AND NETWORKING SERVICES

- a. Compare compute types, including container instances, virtual machines (VMs), and functions
- b. Describe VM options, including Azure Virtual Machines, Azure Virtual Machine Scale Sets, availability sets, and Azure Virtual Desktop
- c. Describe resources required for virtual machines
- d. Describe application hosting options, including the Web Apps feature of Azure App Service, containers, and virtual machines
- e. Describe virtual networking, including the purpose of Azure Virtual Networks, Azure virtual subnets, peering, Azure DNS, Azure VPN Gateway, and Azure ExpressRoute
- f. Define public and private endpoints



2.5
HRS



4.5
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06

CHAPTER

AZURE STORAGE SERVICES

- a. Compare Azure storage services
- b. Describe storage tiers
- c. Describe redundancy options
- d. Describe storage account options and storage types
- e. Identify options for moving files, including AzCopy, Azure Storage Explorer, and Azure File Sync
- f. Describe migration options, including Azure Migrate and Azure Data Box



2.5
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07

CHAPTER

AZURE IDENTITY, ACCESS, AND SECURITY

- a. Describe directory services in Azure, including Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra and Azure Active Directory Domain Services (Azure AD DS)
- b. Describe authentication methods in Azure, including single sign-on (SSO), multifactor authentication, and passwordless
Describe external identities and guest access in Azure
- c. Describe Conditional Access in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra
- d. Describe Azure role-based access control (RBAC)
- e. Describe the concept of Zero Trust
- f. Describe the purpose of the defense in depth model
- g. Describe the purpose of Microsoft Defender for Cloud



3.5
HRS



5.5
HRS

08

CHAPTER

COST MANAGEMENT IN AZURE

- a. Describe factors that can affect costs in Azure
- b. Compare the Pricing calculator and the Total Cost of Ownership (TCO) calculator
- c. Describe the Azure Cost Management and Billing tool
- d. Describe the purpose of tags



01
HRS



02
HRS

09

CHAPTER

FEATURES AND TOOLS IN AZURE FOR GOVERNANCE AND COMPLIANCE

- a. Describe the purpose of Azure Blueprints
- b. Describe the purpose of Azure Policy
- c. Describe the purpose of resource locks
- d. Describe the purpose of the Service Trust Portal



1.5
HRS



02
HRS

10

CHAPTER

FEATURES AND TOOLS FOR MANAGING AND DEPLOYING AZURE RESOURCES

- a. Describe the Azure portal
- b. Describe Azure Cloud Shell, including Azure CLI and Azure PowerShell
- c. Describe the purpose of Azure Arc
- d. Describe Azure Resource Manager and Azure Resource Manager templates (ARM templates)



02
HRS



02
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11

CHAPTER

MONITORING TOOLS IN AZURE

- a. Describe the purpose of Azure Advisor
- b. Describe Azure Service Health
- c. Describe Azure Monitor, including Log Analytics, Azure Monitor alerts, and Application Insights



01
HRS



2.5
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Placement Assistance

100%

135+ Professional Courses

Practical Sessions

90%

67+ Global Pacts

Corporate Placements

65%

170+ IT Companies Tie-Up

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