PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Microsoft Azure Fundamentals	**Course Duration**: 1.0 Day
Exam: Included	**Exam Type**: Proctored Exam
Qualification: Microsoft Azure Fundamentals Certificate	

Course Syllabus

Our Microsoft Azure Fundamentals training course covers the following Modules:

Module 1: Cloud computing

This module covers cloud computing, cloud concepts, deployment models, and understanding shared responsibility in the cloud.
Upon completion of this module, you will be able to:

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

Module 2: Benefits of using cloud services

This module introduces you to the benefits cloud computing can offer you or your organisation. Upon completion of this module, you will be able to:

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

Module 3: Cloud service types

This module covers the different cloud service types and shares some of the use cases and benefits aligned with each service type.
Upon completion of this module, you'll be able to:

- Describe Infrastructure as a Service (IaaS).
- Describe Platform as a Service (PaaS).
- Describe Software as a Service (SaaS).
- Identify appropriate use cases for each cloud service (IaaS, PaaS, SaaS).

Module 4: Describe the core architectural components of Azure

This module explains the basic infrastructure components of Microsoft Azure. You'll learn about the physical infrastructure, how resources are managed, and have a chance to create an Azure resource. Upon completion of this module, you will be able to:

- Describe Azure regions, region pairs, and sovereign regions.
- Describe Availability Zones.
- Describe Azure Datacenters.
- Describe Azure resources and Resource Groups.
- Describe subscriptions.
- Describe management groups.
- Describe the hierarchy of resource groups, subscriptions, and management groups.

Module 5: Describe Azure compute and networking services

This module focuses on some of the computer services and networking services available within Azure.
Upon completion of this module, you'll be able to:

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

Module 6: Azure storage services

This module introduces you to storage in Azure, including things such as different types of storage and how a distributed infrastructure can make your data more resilient.
Upon completion of this module, you will be able to:

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

Module 7: Describe Azure identity, access, and security

This module covers some of the authorisation and authentication methods available with Azure.
By the end of this module, you will be able to:

- Describe directory services in Azure, including Microsoft Entra.
- Describe authentication methods in Azure, including single sign-on (SSO), multifactor authentication (MFA), and passwordless.
- Describe external identities and guest access in Azure.
- Describe Microsoft Entra Conditional Access.
- Describe Azure Role Based Access Control (RBAC).
- Describe the concept of Zero Trust.
- Describe the purpose of the defense in depth model.
- Describe the purpose of Microsoft Defender for Cloud.

Module 8: Describe cost management in Azure

This module explores methods to estimate, track, and manage costs in Azure.
By the end of this module, you will be able to:

- Describe factors that can affect costs in Azure.
- Compare the Pricing calculator and Total Cost of Ownership (TCO) calculator.
- Describe Azure Cost Management Tool.
- Describe the purpose of tags.

Module 9: Describe features and tools in Azure for governance and compliance

This module introduces you to tools that can help with governance and compliance within Azure.
By the end of this module, you will be able to:

- Describe the purpose of Azure Blueprints.
- Describe the purpose of Azure Policy.
- Describe the purpose of resource locks.
- Describe the purpose of the Service Trust portal.

Module 10: Describe features and tools for managing and deploying Azure resources

This module covers tools that help you manage your Azure and on-premises resources.
By the end of this module, you will be able to:

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

Module 11: Describe monitoring tools in Azure

This module covers tools that you can use to monitor your Azure environment.
By the end of this module, you will be able to:

- Describe the purpose of Azure Advisor
- Describe Azure Service Health
- Describe Azure Monitor, including Azure Log Analytics, Azure Monitor Alerts, and Application Insights

Course Overview

Our one-day Microsoft Azure Fundamentals training course is tailored for IT professionals embarking on their journey with Azure. Intended for those eager to explore our services and engage in practical usage, the curriculum predominantly employs the Azure portal and command line interface for resource creation, eliminating the need for scripting skills. Completion of this course instils the confidence necessary to pursue subsequent role-based courses and certifications.

Course Learning Outcomes

Our Microsoft Azure Fundamentals training course will teach you to be proficient in the following:

- Describe cloud concepts.
- Describe Azure architecture and services.
- Describe Azure management and governance.
- Learn about the basics of cloud computing and Azure.
- Learn about Azure architecture and core services.

- Learn about some of the core management and governance tools in Azure.

Audience

Our Microsoft Azure Fundamentals training course will benefit several individuals and organisations, including but not limited to:

- IT Professionals
- Developers
- System Administrators
- Business Decision-Makers
- Students and Aspiring Professionals
- Start-ups and Small Business Owners
- Professionals Seeking Career Transition
- Technical Sales and Marketing Professionals
- IoT Enthusiasts
- Cloud Computing enthusiasts

Entry-Level Requirements

There are no entry-level requirements for our Microsoft Azure Fundamentals training course.

Recommended Reading

There is no recommended reading for our Microsoft Azure Fundamentals training course.

What's Included

Our Microsoft Azure Fundamentals training course includes the following:

- 1-day instructor-led training course
- Microsoft Official Course content
- Hands-on learning labs included
- After-course instructor coaching included
- MOC exam voucher included in course tuition
- Pre-reading
- Course Manuel
- Quizzes
- Exercises

Exam Information

Microsoft Azure Fundamentals Examination:

The MOC exam voucher is included in the cost of this Microsoft Azure Fundamentals training course.

What's Next

Our four-day Microsoft Azure Administrator training 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.

Additional Information

Our Microsoft Azure Fundamentals training course offers several benefits to individuals and organisations. Included but not limited to:

- **Foundational Cloud Knowledge:** Gain a solid understanding of fundamental cloud computing concepts, which is applicable across various cloud platforms.
- **Entry Point to Azure Ecosystem**: A gateway for beginners to explore and understand the diverse services and capabilities within the Microsoft Azure ecosystem.
- **Career Advancement**: Enhance career prospects by acquiring skills that are in high demand in the rapidly growing field of cloud computing.
- **Preparation for Advanced Certifications**: Provide a stepping stone for more advanced Azure certifications and role-based courses, allowing individuals to specialize in specific areas of Azure.
- **Hands-On Experience**: Acquire practical, hands-on experience with Azure services through the Azure portal and command line interface, building confidence in using cloud technologies.
- **IT Infrastructure Management**: Learn how to manage and maintain IT infrastructure in the cloud, applicable to system administrators and IT professionals.
- **Application Development Skills**: Develop skills for deploying and managing applications in the Azure environment, catering to developers and software engineers.
- **Business Decision-Making**: Equip business decision-makers with foundational knowledge to make informed decisions about adopting Azure for organizational needs.
- **Cost Management Awareness**: Understand Azure pricing models and service level agreements (SLAs), enabling better cost management for cloud resources.
- **Support for Start-ups and Small Businesses**: Empower start-ups and small businesses to leverage Azure for establishing an online presence, hosting applications, and managing data efficiently.