AZ 900 Microsoft Azure Fundamentals Training Curriculum

STRUCTURE

www.cromacampus.com | helpdesk@cromacampus.com | +91-120-4155255

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About Croma Campus:

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
- 100% Placement Assistance

Course Objectives:

- Prepare yourself for the certification exam and clear your certification exam in the first attempt
- Add an attractive credential in your resume that is really appreciated by Companies.
- Improve your overall Cloud management skills, azure development skills, and explore more job prospects with better salary packages.
- Boost your social media profiles especially LinkedIn by adding this certification and become one of the top persons to be chosen by industries.

Croma Campus Training Program Deliverables:

- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments** | Multiple Hands-on Exercises
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
- **Live Projects** - Hands-on exercises and Project work. You will work on real time industry-oriented projects and assignments for each module to practice.
- **Key focus on Hands-on exercises and Project work**. You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
- **Technical Resume Designing & Job Assistance:** With more than 100+ Clients across the Globe and we help learners to get a good job in their respective field. We also help learners with resume preparation.
- **Interview Q&A**
- **About Croma Campus Training Certificate:** Croma Campus will provide you with an industry-recognized (Certified by **ISO 9001:2015** & **E-Cell IIT Jodhpur**) course completion certificate, which has lifelong validity.
- **How I unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.

AZ 900 Certification Training Description:

With our AZ-900 "Microsoft Azure fundamentals" certification Training you will learn foundational knowledge of cloud services and how those services are provided with Microsoft Azure. The exam is intended for candidates who are just beginning to work with cloud-based solutions and services or are new to Azure.

Azure Fundamentals exam is an opportunity to prove knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure, as well as Azure pricing and support. Candidates should be familiar with the general technology concepts, including concepts of networking, storage, compute, application support, and application development.

Azure Fundamentals can be used to prepare for other Azure role-based or specialty certifications, but it is not a prerequisite for any of them.

Here are some strong reasons why should you consider this certification course.

- Validate your Azure Fundamental skills like storage, networking, compute, security, and other Cloud operations on Microsoft Azure.
- Validate your basic skills and learn how Azure can help you in designing robust cloud solutions
- Top-paying info-tech certification in the world.
- It provides you with global recognition for your knowledge, skills, and experience.
- The organization looks for those who know Oracle Cloud, AWS, Azure, etc.

Necessary Details about Certification You Must Know

- Certification Name – AZ-900 Microsoft Azure Fundamentals Training
- Prerequisites: None
- Exam Duration: 150 minutes
- Number of Questions: 40-60
- Passing score: 700 (Out of 1000)
- Exam Cost: USD 165.00
- Validity: 2 years

Certification Exam Structure:

- Describe cloud concepts (20-25%)
- Describe core Azure services (15-20%)
- Describe core solutions and management tools on Azure (10-15%)
- Describe general security and network security features (10-15%)
- Describe identity, governance, privacy, and compliance features (15-20%)
- Describe Azure cost management and Service Level Agreements (10-15%)

Course Content:

Module 1: Describe Cloud Concepts

- Identify the benefits and considerations of using cloud services Cloud Computing Basics
  - Identify the benefits of cloud computing, such as High Availability, Scalability, Elasticity,
  - Agility, and Disaster Recovery
  - Identify the differences between Capital Expenditure (Cap Ex) and Operational
  - Expenditure (Op Ex)
  - Describe the consumption-based model
- Describe the differences between categories of cloud services
  - Describe the shared responsibility model
  - Describe Infrastructure-as-a-Service (IaaS),
  - Describe Platform-as-a-Service (PaaS)
  - Describe server less computing
  - Describe Software-as-a-Service (SaaS)
  - Identify a service type based on a use case
- Describe the differences between types of cloud computing
  - Define cloud computing
  - Describe Public cloud
  - Describe Private cloud
  - Describe Hybrid cloud
  - Compare and contrast the three types of cloud computing

Module 2: Describe Core Azure Services

- Describe the core Azure architectural components
  - Describe the benefits and usage of Regions and Region Pairs
  - Describe the benefits and usage of Availability Zones
  - Describe the benefits and usage of Resource Groups
  - Describe the benefits and usage of Subscriptions
  - Describe the benefits and usage of Management Groups
  - Describe the benefits and usage of Azure Resource Manager
  - Explain Azure resources
- Describe core resources available in Azure
  - Describe the benefits and usage of Virtual Machines, Azure App Services, Azure Container Instances (ACI), Azure Kubernetes Service (AKS), and Azure Virtual Desktop
  - Describe the benefits and usage of Virtual Networks, VPN Gateway, Virtual Network peering, and ExpressRoute
  - Describe the benefits and usage of Container (Blob) Storage, Disk Storage, File Storage, and storage tiers
  - Describe the benefits and usage of Cosmos DB, Azure SQL Database, Azure Database for MySQL, Azure Database for PostgreSQL, and SQL Managed Instance
  - Describe the benefits and usage of Azure Marketplace

Module 3: Describe core solutions and management tools on Azure

- Describe core solutions available in Azure
    - Describe the benefits and usage of Internet of Things (IoT) Hub, IoT Central, and Azure Sphere
    - Describe the benefits and usage of Azure Synapse Analytics, HDInsight, and Azure Data bricks
    - Describe the benefits and usage of Azure Machine Learning, Cognitive Services and Azure Bot Service
    - Describe the benefits and usage of server less computing solutions that include Azure Functions and Logic Apps
    - Describe the benefits and usage of Azure DevOps, GitHub, GitHub Actions, and Azure Dev Test Labs

- Describe Azure management tools
    - Describe the functionality and usage of the Azure Portal, Azure PowerShell, Azure CLI, Cloud Shell, and Azure Mobile App
    - Describe the functionality and usage of Azure Advisor
    - Describe the functionality and usage of Azure Resource Manager (ARM) templates
    - Describe the functionality and usage of Azure Monitor
    - Describe the functionality and usage of Azure Service Health

Module 4: Describe general security and network security features

- Describe Azure security features
    - Describe basic features of Azure Security Center, including policy compliance, security alerts, secure score, and resource hygiene
    - Describe the functionality and usage of Key Vault
    - Describe the functionality and usage of Azure Sentinel
    - Describe the functionality and usage of Azure Dedicated Hosts
- Describe Azure network security
    - Describe the concept of defence in depth
    - Describe the functionality and usage of Network Security Groups (NSG)
    - Describe the functionality and usage of Azure Firewall
    - Describe the functionality and usage of Azure DDoS protection

Module 5: Describe identity, governance, privacy, and compliance features

- Describe core Azure identity services
    - Explain the difference between authentication and authorization
    - Define Azure Active Directory
    - Describe the functionality and usage of Azure Active Directory
    - Describe the functionality and usage of Conditional Access, Multi-Factor Authentication
    - (MFA), and Single Sign-On (SSO)
- Describe Azure governance features
    - Describe the functionality and usage of Role-Based Access Control (RBAC)
    - Describe the functionality and usage of resource locks

- Describe the functionality and usage of tags
- Describe the functionality and usage of Azure Policy
- Describe the functionality and usage of Azure Blueprints
- Describe the Cloud Adoption Framework for Azure

- Describe privacy and compliance resources
  - Describe the Microsoft core tenets of Security, Privacy, and Compliance
  - Describe the purpose of the Microsoft Privacy Statement, Online Services Terms (OST) and Data Protection Amendment (DPA)
  - Describe the purpose of the Trust Centre
  - Describe the purpose of the Azure compliance documentation
  - Describe the purpose of Azure Sovereign Regions (Azure Government cloud services and Azure China cloud services)

Module 6: Describe Azure cost management and Service Level Agreements

- Describe methods for planning and managing costs
  - Identify factors that can affect costs (resource types, services, locations, ingress and egress traffic)
  - Identify factors that can reduce costs (reserved instances, reserved capacity, hybrid use benefit, spot pricing)
  - Describe the functionality and usage of the Pricing calculator and the Total Cost of Ownership (TCO) calculator
  - Describe the functionality and usage of Azure Cost Management
- Describe Azure Service Level Agreements (SLAs) and service lifecycles
  - Describe the purpose of an Azure Service Level Agreement (SLA)
  - Identify actions that can impact an SLA (i.e. Availability Zones)
  - Describe the service lifecycle in Azure (Public Preview and General Availability)