



# Microsoft Azure Certification Training (AZ-900 & AZ-104)

## STRUCTURE



## 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

## 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.

## Course Content:

### Module 1: Azure Fundamentals

- Introduction
  - Cloud Computing Basics
  - Why Cloud computing?
  - What is Microsoft Azure?
  - Cloud terminologies
  - Fault Tolerance and Disaster Recovery
  - Describe the principles of economies of scale
  - Describe the consumption-based model
- Cloud Services
  - Describe Infrastructure-as-a-Service (IaaS),
  - Describe Platform-as-a-Service (PaaS)
  - Describe Software-as-a-Service (SaaS)
- Cloud Models
  - Describe Public cloud
  - Describe Private cloud
  - Describe Hybrid cloud
  - Compare and contrast the three different cloud models
- Core Azure architectural components
  - Describe Azure Architecture
  - Describe Regions
  - Describe Availability Zones
  - Describe Resource Groups
  - Describe Azure Resource Manager
- Management Tools
  - Azure Portal

### Module 2: Azure Virtual Machines and Virtual Networks

- Virtual Machines Overview
  - Azure Virtual Machines
  - Azure Resource Manager VM
  - Introduction to ARM Templates
  - Create an Image from VM Snapshots
  - Create and configure a VM for Windows and Linux
  - Automate deployment of VMs
  - Manage Azure VM
- Virtual Networks Overview
  - Azure Virtual Networks
  - IP Addresses – Public & Private
  - Subnets
  - Network Interface Cards (NICs)
  - Network Security Groups (NSGs)

### Module 3: Azure Storage

- Azure Storage
- Azure Storage Replication
- Azure Storage Explorer
- Attach or Detach an External Storage Account
- Shared Access Signatures (SAS)
- Attach a Storage Account using SAS
- Azure Blob Storage
- Azure File Storage
- Azure Queue Storage
- Azure Table Storage
- Create and configure storage accounts
- Import and export data to Azure
- Configure Azure files

#### **Module 4: Azure App Service Web Apps**

- Create Azure App Service Web Apps
- Create an Azure App Service Web App
- Create an Azure App Service background task by using Web Jobs
- Enable diagnostics logging
- Create an Azure Web App for Containers
- Monitor service health by using Azure Monitor

#### **Module 5: Application Insights**

- What is application insight
- How to derive application insights?
- Develop code to support scalability of apps and services
- Implement code that handles transient faults

#### **Module 6: Azure Logic Apps & Function Apps**

- Develop an App Service Logic App
  - Create a Logic App
  - Create a custom connector for Logic Apps
  - Create a custom template for Logic Apps
- Develop an App Service Function App
  - What are functional apps?
  - Prerequisites
  - Steps to create functional apps
  - Create a template for function apps
  - Writing code for functional app

#### **Module 7: Azure Key Vault**

- Azure Vault Basic Concepts
- Authentication
- Azure Vault Roles

- Security overview
- Secure access to a key vault
- Key Vault authentication fundamentals

## **Module 8: Azure Cosmo DB**

- Introduction to NoSQL
- SQL vs NoSQL Database
- 4 types of NoSQL Databases
- NoSQL Offerings by Microsoft Azure
- Cosmo DB Overview
- Cosmos DB - Multi Model 5 APIs
- Table Storage vs. Cosmos DB
- Provision Cosmos DB Account
- Cosmo DB database containers and items
- Cosmo DB throughput and request units
- Cosmos DB - Horizontally Scalable
- Cosmos DB - Partition and Partitioning key

## **Module 9: Azure Redis Cache**

- Introduction to Caching
- Introduction to Redis Cache
- Programming Redis Cache
- Developing Redis Cache Clients
- Controlling expiration
- Best practices

## **Module 10: Azure SQL**

- What is an Azure Database?
- What can you configure in Azure Database?
- Setting up SQL server
- Creating Azure SQL database
- Creating a Virtual Machine (VM) SQL Server Database on Azure
- Common DBA tasks
- Replicating your databases
- Performance monitoring an Azure SQL Database
- Restore a Database
- Migrating an Azure SQL database
- Creating Azure SQL tables using SQL Server Management Studio (SSMS)
- Elastic Pool
- Dynamic Data Masking