



# AZ-305-Designing-Microsoft-Azure-Infrastructure-Solutions Training Curriculum

## STRUCTURE



## AZ-305-Designing Microsoft Azure Infrastructure Solutions

### 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.

## **Training Program Description:**

Azure Solution Architects have subject matter expertise in designing cloud and hybrid solutions That run on Microsoft Azure, including compute, network, storage, monitor, and security.

Responsibilities for an Azure Solution Architect include advising stakeholders and translating Business requirements into designing secure, scalable, and reliable Azure cloud solutions. An Azure Solution Architect partners with Azure Developers, Azure Administrators, and other roles Responsible for implementing Azure solutions.

Azure Solutions Architects have experience and knowledge of IT operations, including Networking, virtualization, identity, security, business continuity, disaster recovery, data Platforms, and governance—this role should manage how decisions in each area affect an overall Solution. Generally, this role has experience in Azure administration, Azure development, and DevOps processes.

## **Certification Exam Structure:**

- Design Identity, Governance, and Monitoring Solutions (25-30%)
- Design Data Storage Solutions (25-30%)
- Design Business Continuity Solutions (10-15%)
- Design Infrastructure Solutions (25-30%)

## **Course Content:**

### **Module 1: Design Identity, Governance, and Monitoring Solutions**

- Design a Solution for Logging and Monitoring
  - Design a log routing solution
  - Recommend an appropriate level of logging
  - Recommend a monitoring tool(s) for a solution
- Design Authentication and Authorization Solutions
  - Recommend a solution for securing resources with role-based access controls
  - Recommend an identity management solution
  - Recommend a solution for securing identities
- Design Governance
  - Recommend an organizational and hierarchical structure for Azure resources
  - Recommend a solution for enforcing and auditing compliance
- Design Identities and Access for Applications
  - Recommend solutions to allow applications to access Azure resources
  - Recommend a solution that securely stores passwords and secrets
  - Recommend a solution for integrating applications into Azure AD
  - Recommend a user consent solution for applications

## Module 2: Design Data Storage Solutions

- Design a Data Storage Solution for Relational Data
  - Recommend database service tier sizing
  - Recommend a solution for database scalability
  - Recommend a solution for encrypting data at rest, data in transmission, and data in use
- Design Data Integration
  - Recommend a solution for data integration
- Recommend a solution for data analysis Recommend a Data Storage Solution
  - Recommend a solution for storing relational data
  - Recommend a solution for storing semi-structured data
  - Recommend a solution for storing non-relational data
- Design a Data Storage Solution for Non-relational Data
  - Recommend access control solutions to data storage
  - Recommend a data storage solution to balance features, performance, and cost
  - Design a data solution for protection and durability

## Module 3: Design Business Continuity Solutions

- Design a Solution for Backup and Disaster Recovery
  - Recommend a recovery solution for Azure, hybrid, and on-premises workloads that meets
  - Recovery objectives (RTO, RLO, RPO)
  - Understand the recovery solutions for containers
  - Recommend a backup and recovery solution for compute
  - Recommend a backup and recovery solution for databases
  - Recommend a backup and recovery solution for unstructured data
- Design for High Availability
  - Identify the availability requirements of Azure resources
  - Recommend a high availability solution for Compute
  - Recommend a high availability solution for non-relational data storage
  - Recommend a high availability solution for relational data storage

## Module 4: Design Infrastructure Solutions (25-30%)

- Design a Compute Solution
  - Recommend a Virtual Machine-based compute solution
  - Recommend an appropriately sized compute solution based on workload requirements
  - Recommend a Container-based compute solution
  - Recommend a Server less-based compute solution Describe Azure network security
- Design an Application Architecture
  - Recommend a caching solution for applications
  - Recommend a messaging architecture
  - Recommend an event-driven architecture
  - Recommend an automated deployment solution for your applications
  - Recommend an application configuration management solution

- Recommend a solution for API integration
- Design Migrations
  - Evaluate migration solution that leverages the Cloud Adoption Framework
  - Assess and interpret on-premises servers, data, and applications for migration
  - Recommend a solution for migrating applications and Virtual Machines
  - Recommend a solution for migrating databases
  - Recommend a solution for migrating unstructured data
- Design Network Solutions
  - Recommend a network architecture solution based on workload requirements
  - Recommend a connectivity solution that connects Azure resources to the Internet
  - Recommend a connectivity solution that connects Azure resources to on-premises networks
  - Optimize network performance for applications
  - Recommend a solution to optimize network security
  - Recommend a load balancing and routing solution