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# AZURE CENTRAL

- DURATION OF TRAINING : 40 HRS.
- BATCH TYPE : WEEKDAYS/WEEKENDS
- MODE OF TRAINING : CLASSROOM/ONLINE/CORPORATE TRAINING



**Azure Central Training Syllabus**, focusing on core Azure services, governance, security, and deployment models using Microsoft Azure's centralized management tools like **Azure Arc**, **Azure Lighthouse**, **Azure Policy**, **Azure Monitor**, and **Azure Resource Manager (ARM)**.

**Course Title** : Microsoft Azure Centralized Cloud Management & Operations Training

**Duration** : 30–40 Hours

**Format** : Instructor-led | Hands-on Labs | Use-Case Simulations

**Target Audience** :

- Cloud Administrators
- Azure Engineers
- IT Infrastructure & Ops Teams
- MSPs and Centralized Governance Teams
- Cloud Architects

Course Objective Equip professionals with the skills to manage and operate Azure environments across **multiple subscriptions, tenants, and hybrid environments** using central tools and best practices.

**Syllabus Breakdown by Module**

**Module 1: Azure Overview & Core Services (3 Hours)**

- Azure regions and architecture
- Azure Resource Manager (ARM) basics
- Subscription & tenant hierarchy
- Role-Based Access Control (RBAC)

**Module 2: Azure Resource Organization (4 Hours)**

- Resource groups, naming conventions
- Management groups and policies
- Tags and policy enforcement
- Blueprints overview

**Lab**: Organize a multi-subscription environment using management groups and policies.

### **Module 3 : Azure Arc for Hybrid and Multi-Cloud (6 Hours)**

- Introduction to Azure Arc
- Connecting on-prem and other cloud resources to Azure
- Arc-enabled servers, Kubernetes, SQL, and VMware
- Azure Policy and security deployment via Arc

**Lab:** Register on-prem servers and manage them via Azure Arc.

### **Module 4: Azure Lighthouse – Multi-Tenant Management (4 Hours)**

- Overview of Azure Lighthouse
- Delegated resource management
- Templates and automation with ARM
- Service provider operations

**Lab:** Configure and manage customer environments using Lighthouse.

### **Module 5: Azure Monitor & Centralized Logging (5 Hours)**

- Azure Monitor, Log Analytics, Application Insights
- Diagnostic settings and telemetry
- Creating alerts and dashboards
- Integration with Azure Arc and on-prem resources

**Lab:** Set up Log Analytics to monitor cross-resource activities.

### **Module 6: Azure Policy & Governance (5 Hours)**

- Azure Policy structure: definitions, initiatives
- Implementing regulatory compliance (e.g., ISO, CIS)
- Policy remediation and reporting
- Guest configuration policies

**Lab:** Deploy governance policies across multiple subscriptions.

### **Module 7: Security & Identity Management (5 Hours)**

- Azure Security Center & Defender for Cloud
- Centralized identity using Azure AD
- Conditional Access and Identity Protection
- Just-In-Time (JIT) access & Privileged Identity Management (PIM)

### **Module 8: Cost Management & Budgeting (3 Hours)**

- Azure Cost Management & Billing tools
- Forecasting and budget creation
- Multi-subscription cost tracking
- Recommendations and optimization

**Lab:** Set up budgets and alerts across multiple subscriptions.

## Module 9: Automation & Infrastructure as Code (4 Hours)

- Bicep and ARM templates
- Azure DevOps & GitHub Actions for resource deployment
- Desired State Configuration (DSC)
- Using Azure Automation for centralized runbooks

Lab: Deploy resources and policies using Infrastructure as Code.

## Module 10: Capstone Project – Central Governance Setup (2–3 Hours)

### Project Scenario:

Implement a full central governance model for a simulated enterprise with:

- Multi-subscription Azure architecture
- Azure Arc-connected resources
- Role delegation via Lighthouse
- Security and monitoring enforcement

### Tools & Services Covered :

- Azure Resource Manager (ARM)
- Azure Arc
- Azure Lighthouse
- Azure Policy
- Azure Monitor & Log Analytics
- Azure Automation
- Azure Cost Management
- Microsoft Defender for Cloud

### Job Roles Covered:

#### Role Skills Gained

Azure Cloud Admin Centralized ops, monitoring, and automation Cloud Architect Governance, policy, hybrid integration MSP / Service Provider Multi-tenant management via Lighthouse & Arc

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