**AZ-900**

* + Module 1: **Cloud Concepts** 
    1. High Availability , Scalability, Elasticity, Agility, Fault Tolerance, and Disaster Recovery
    2. Principles of economies of scale
    3. Capital Expenditure (CapEx) and Operational Expenditure (OpEx)
    4. Consumption-based model
    5. Public, Private and Hybrid cloud models
    6. Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS)
  + Module 2: **Core Azure Services**
    1. Core Azure architectural components
    2. Regions , Availability Zones, Resource Groups, Azure Resource manager
    3. Compute such as Virtual Machines, Virtual Machine Scale Sets, App Service and Functions
    4. Networking such as Virtual Network, Load Balancer, VPN Gateway, Application Gateway and Content Delivery Network
    5. Storage such as Blob Storage, Disk Storage, File Storage, and Archive Storage
    6. Databases such as CosmosDB, Azure SQL Database, Azure Database Migration service, and Azure SQL Data Warehouse
    7. Azure Marketplace and its usage scenarios
    8. Internet of Things (IoT) , IoT Fundamentals, IoT Hub and IoT Central
    9. Big Data and Analytics, SQL Data Warehouse, HDInsight and Data Lake Analytics
    10. Serverless computing , Azure Functions, Logic Apps and App grid
    11. Benefits and outcomes of using Azure solutions
    12. Azure tools such as Azure CLI, PowerShell, and the Azure Portal
    13. Azure Advisor
  + Module 3: **Security, Privacy, Compliance and Trust**
    1. Securing network connectivity in Azure, Azure Firewall, Azure DDoS Protection, Network Security Group (NSG) , Azure security solution
    2. Azure Identity services , Authentication and Authorization , Azure Active Directory,Azure Multi-Factor Authentication
    3. Security tools and features of Azure ,Azure Security, Azure Security center, Key Vault, Azure Information Protection (AIP), Azure Advanced Threat Protection (ATP)
    4. Azure governance methodologies,Azure Policies , Azure Initiatives, Role-Based Access Control (RBAC), Locks, Azure Advisor security assistance
    5. Azure monitoring and reporting options, Azure Monitor, Azure Service Health
    6. Compliance and data protection standards in Azure,Industry compliance terms such as GDPR, ISO and NIST , Microsoft Privacy Statement, Trust center,  Service Trust Portal, Compliance Manager, Azure is compliant for a business need, Azure Government services, Azure Germany services
  + Module 4: **Azure Pricing and Support**
    1. Azure subscription
    2. Options for purchasing Azure products and services,  Azure Free account,
    3. Factors affecting costs such as resource types, services, locations, ingress and egress traffic
    4. Zones for billing purposes, Pricing calculator, Total Cost of Ownership (TCO) calculator
    5. Performing cost analysis, creating spending limits and quotas, and using tags to identify cost owners; use Azure reservations; use Azure Advisor recommendations, Azure Cost Management
    6. Support plans that are available such as Dev, Standard, Professional Direct and Premier
    7. How to open a support ticket, Available support channels outside of support plan channels
    8. Azure Knowledge Center
    9. Service Level Agreement (SLA)
    10. Service lifecycle in Azure ,Public and Private Preview features , how to access Preview features, General Availability (GA) , monitor feature updates