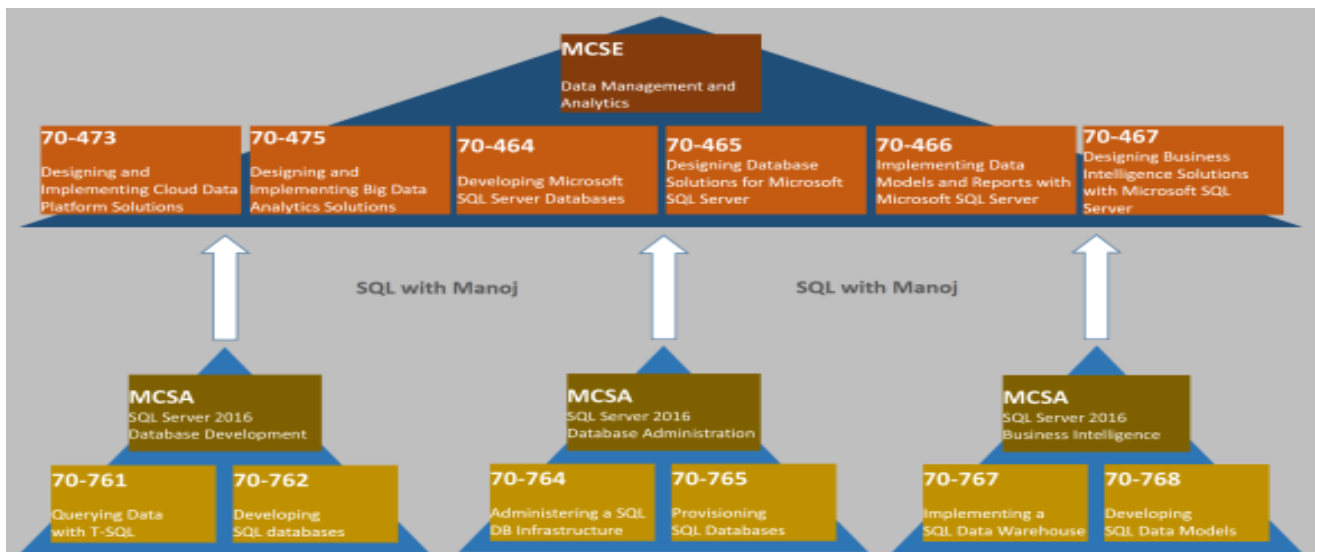**Azure Fundamental | Security | IAM | SQL On VM | SQL Instance | SQL Migration | SQL Stretch Database | Backup| Performance | Fine Tuning**
10 Module | 16 Labs | Placements and Certification Assistance

QUOTATION AND COURSE OUTLINE

MICROSOFT AZURE SQL ADMINISTRATOR

LEARNING PATH IMPLEMENT AND MANAGE AZURE SQL

Course Materials

TechPledge will provide a customized set of Lecture Notes for each class scheduled along with Recoded video . You will be given a PDF file which you may make copies from, email to your participants, or make available via internal website.

Learning Path for Azure Database Administrator

The Advanced SQL Azure Training course provides an in-depth deep understanding about Microsoft Azure, including Azure virtual machines, Azure SQL Database, and Azure SQL Managed Instance. At the TechPledge we provide the training which is always updated inline with the Azure Database Administrator Skills required by the industry and recommended by Microsoft. Below is the patch for training

Evolve your Azure SQL Skills

- *Azure architecture and service guarantees*
- *Manage VM Instance and SQL with Azure portal*
- *Security, responsibility and trust in Azure*
- *Apply and monitor infrastructure standards with Azure Policy.*
- *Control and organize SQL with Azure Resource Manager*

Manage SQL in Azure

- *Align requirements with cloud types and service models in Azure*
- *Control Azure SQL services with the CLI*
- *Automate Azure tasks using scripts with PowerShell*
- *Predict costs and optimize spending for SQL on Azure*
- *Control and organize Azure resources with Azure Resource Manager*

Administer SQL in Azure

- *Pillars of a great Azure Administration*
- *Manage security of your SQL Instance on Azure*
- *Manage performance and scalability of SQL in Azure*
- *Manage for efficiency and operations of SQL in Azure*
- *Manage for availability and recoverability in Azure*
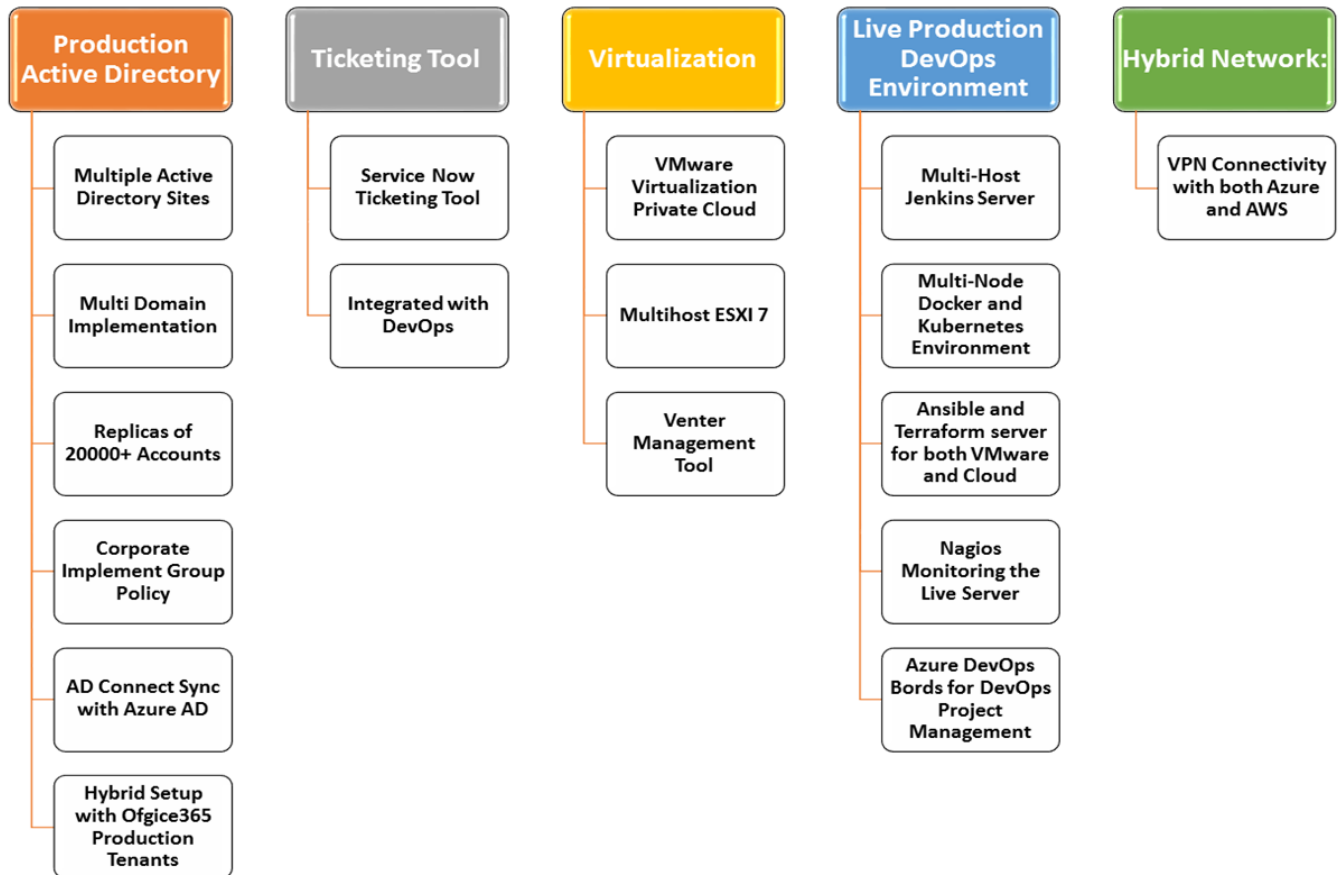

Abilities Validated by the Training

- Manage SQL infrastructure on Azure
- Manage workloads and security
- Create and deploy Azure Managed SQL Instance
- Manage authentication and secure data
- Manage identity and security
- Manage a data platform solution
- Managing Azure subscriptions and resources
- Implementing and managing Azure Database
- Deployment and management of the virtual machines (VMs)
- Configuration and management of the virtual networks
- Deployment, migration, and integration

Customer Immersion – Live Production Walkthrough

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6 Hours Live walkthrough the complete Azure SQL Cloud Infrastructure Integration and Migration Process in production environment with full setup of Infrastructure Like **AD, Microsoft SQL , Microsoft Exchange, File Server , ADFS and**   DevOps Tool Like **Jenkins , Ansible , Docker , AWS Code Deploy , AWS Code Pipeline , Azure Pipeline** and **Azure ARM** and Development Environment with Maven, Visual Studio and Python.

The Complete Setups is using **100** of **PowerShell** & **Linux Script** with **237 CI/CD scripts** (J**ason, Yamal**).

Below is the High-Level Setup Outline of our Customer Immersion Production Replicas. Student will get the access of this setup at end of the course for 6 hours with AD ID and Organization Email.

TechPledge®
Connect.Consult.Content

Production Active Directory

- Multiple Active Directory Sites
- Multi Domain Implementation
- Replicas of 20000+ Accounts
- Corporate Implement Group Policy
- AD Connect Sync with Azure AD
- Hybrid Setup with Ofgice365 Production Tenants

Ticketing Tool

- Service Now Ticketing Tool
- Integrated with DevOps

Virtualization

- VMware Virtualization Private Cloud
- Multihost ESXI 7
- Venter Management Tool

Live Production DevOps Environment

- Multi-Host Jenkins Server
- Multi-Node Docker and Kubernetes Environment
- Ansible and Terraform server for both VMware and Cloud
- Nagios Monitoring the Live Server
- Azure DevOps Bords for DevOps Project Management

Hybrid Network:

- VPN Connectivity with both Azure and AWS

Learn while doing with our Sandbox Environment

Azure Sandbox

- Connect with Azure Portal through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.

AWS Sandbox

- Connect with AWS Console through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.

Course Outline

Introduction to Cloud Computing
- Understanding Cloud Computing
- Benefit and Feature of Cloud Computing
- Explain on Platform as a Service (PaaS), SaaS, IaaS
- Cloud Trends
- Public and Private Cloud
- Principles of Parallel and Distributed Computing

- Depth explains on Virtualization
- Architecture of Cloud Computing
- Major Player on Cloud Infrastructure

Getting Start with Microsoft Azure

- Overview of Microsoft Azure
- Explains on Azure Platform
- Getting Access to Azure
- Explain on Azure Resource Manager
- Using Azure Portal
- Manage Azure using Azure Portal
- Manage Azure using Power Shell
- Understanding on Management Services
- Create and View Resources
- Explain on Azure services

Azure Virtual Machine Instance with SQL

- Compliance
- Networking
- Active Directory integration
- Installing SQL Server
- Configuring SQL Server
- Maintenance considerations
- HA/DR options
- Performance scaling
- Billing considerations and licensing

Provision and Manage Azure SQL

- Overview of Azure SQL Database
- Benefits of SQL database
- Scaling SQL database
- Connect SQL Dat5abse with Visual Studio or Java
- SQL database Unit Test
- Backup Options
- Restore services
- Dynamic Data Masking
- Row-Level security
- Stretch Database for on-prem Table
- Always Encrypted
- Query Store
- Index Advisor
- Geo-replication
- Elastic pools
- Pricing
- Hands-on Lab: Deploy SQL database on Azure

- Maintenance considerations
- Automation with ARM
- Monitoring and alerting

Migrating to Azure Database
- Azure Migration Tool
- Azure Site Recovery
- Planning for Migration
- Stretch database for SQL
- DTU Calculator
- Upgrade planning
- Migrating databases to Azure SQL Database
- Tuning options
- Connectivity

Managing Security and Identity for Azure SQL
- Security Monitoring
- Data Security
- Hybrid Identity
- Azure SQL Security Architecture
- SQL Access controls
- DB Roles
- Advanced Security
- Auditing
- Vulnerability Assessment
- Threat Protection

Monitoring and Automating Azure Solutions
- Application Monitoring
- Platform Monitoring
- Network Monitoring
- Alerting
- Backup
- Azure Automation
- Auto-Scale

Advance Database
- Hyper-Scale
- Azure Data Factory
- Azure Data Warehouse
- Azure Data Studio for SQL Server

Microsoft Tool

- Understanding of MAP Tool
- Azure Pricing Calculator
- Azure Bandwidth Calculator
- Microsoft Solutions Architect

Project : Migrate the SQL from On-Prem to Azure SQL instance

Course Fee

Call for Price