Course Name: Azure DevOps Solutions

Exam Code: AZ-400

Certification: Microsoft Certified: Azure DevOps Engineer Expert

Pre-requisites for participants:

Should have experience on development Dot Net, GIT, Code Deployment etc.

Should be aware about Azure basics

Should have 6+ years of IT exp

Should be aware of working on Linux console and/or powershell

Total training duration: 40 Hours

-----------------------------Start of Main Content --------------------------------

Module 3: Deploy and Configure Standardized Environments

Lessons:

- Overview
- Environments in IaaS/PaaS and with Containers
- Introduction to ARM Templates
- Implementing ARM Templates
- Logging, Troubleshooting and Diagnostics
- Provisioning and Configuring Environments with Azure DevTest Labs
- Introduction to Desired State Configuration
- DSC in DevOps
- Implementing Automation DSC

Module 4: Azure Automation

Lessons:

- Overview of Azure Automation
- Infrastructure as Code and Automation
- Automation Accounts & Security
- Runbook Assets
- Runbook Basics

Module 5: Build and Deploy Automatically to Production

Lessons:

- Overview of Build and Deploy
- Automated Builds
- Automated Deployments
- Package Management and Containers
- Overview of Continuous Integration
- Continuous Integration
- Pipelines and Agents
- Continuous Delivery
- Release Pipelines
- Environments and Tasks
- Advanced Delivery
- Overview of Continuous Deployment
- Continuous Deployment
- Advanced Continuous Deployment

Module 6: Containerization

Lessons:

- What is Containerization
- Containers and Docker
- Linux and Windows Containers
- Where can you host containers?
- DevOps and Containers

Module 7: Azure Container Services

Lessons:

- Introduction to Azure Container Services (ACS/AKS)
- Creating and configuring ACS clusters
- Running Multiple Containers
- Configuring monitoring and logging
- Scaling & Deployment

Module 8: Application Monitoring

Lessons:

- Overview of Application Monitoring
- Application Performance Monitoring
- Application Insights
- Search and Analysis

Module 9: Networking concepts (Mostly conceptual – 4 Hours)

Lessons:

- How to create Virtual Networks?
- How to enable VPN peering?
- What is VPN and how it works?
- How to deploy a web app on Virtual Machine and enable public IP address on it
- How to deploy azure web app and enable custom DNS?

Module 10: CI/CD For Azure Data Factory (4 Hours)

Lessons:

- ADF Modes
- Development flow for ADF
- Creating the Azure YAML Pipeline
- CI Process (Build Stage)
- CD Process (Deployment Stage)