

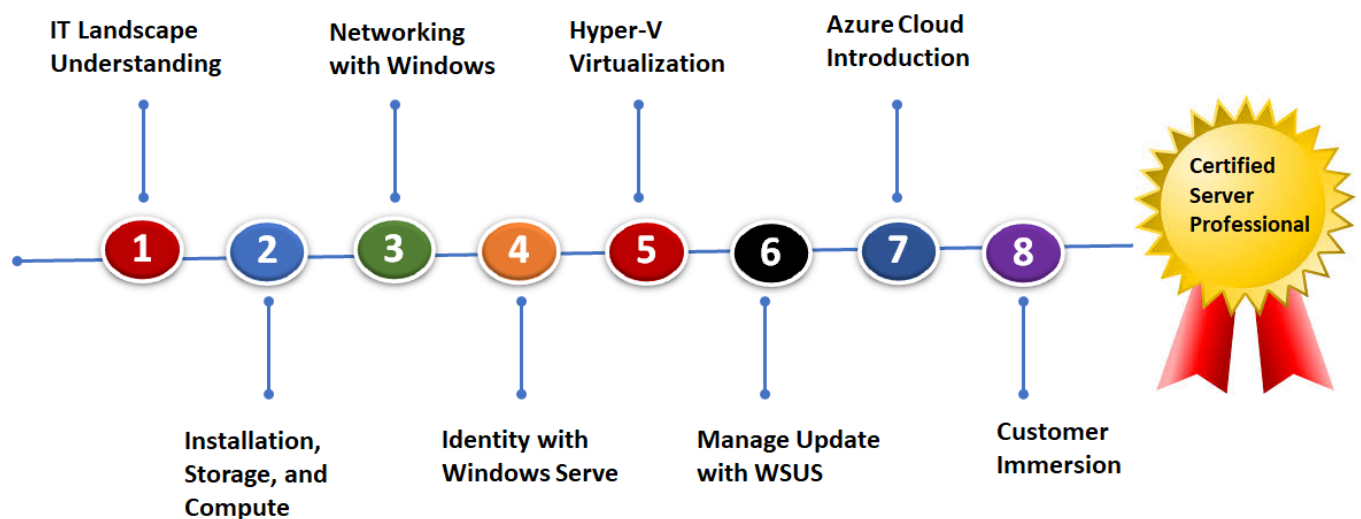
**INTRODUCTION | WINDOWS SERVER 2016 | LINUX ADMIN
| VMWARE VSPHERE | AWS SYSOPS| AZURE ARCHICET |
DEVOPS| SECURITY | MIGRATION | MONITORING | COST**

18 MODULE | 44 LABS | 1 CERTIFICATION | 2 INDS PROJECT

TechPledge Windows System Administrator Program will build your Microsoft Core Service Admin Expertise from ground up to Kickstart Career.

TECHPLEDGE CERTIFIED WINDOWS ADMIN PROFESSIONAL

EXAM: 70-740/41/42 MICROSOFT CERTIFIED SOLUTIONS ASSOCIATE



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 Microsoft Solutions Associates

Microsoft Solutions Associates combine people, process, and technologies to continuously deliver valuable products and services that meet end user needs and business objectives as a Solutions Associates you have the skills needed to run a highly efficient and modern data center, identity management, systems management, virtualization, storage, and networking. A Microsoft Solutions Associates must have expertise in Design and Implement compute, network, storage, security and Application. At the TechPledge we provide the training which is always updated in line with the Administration Skills required by the industry and recommended by Microsoft. Below is the path for training

Evolve your Core Infra Skills



- *Understand the Datacenter Components like Rack, Power, Servers*
- *Implement the Microsoft Core Service Like Active Directory, DNS*
- *Understand the Windows Server Core Roles*
- *Design and Implement Windows based Infrastructure*
- *Brush-up your skills for Administration*

Manage Roles in Microsoft Windows



- *Control the Roles and Features*
- *Implement Corporate Security Policy*
- *Automate tasks using PowerShell scripts*
- *Optimize the Performance*
- *Control and organize Resource*

Administration of Microsoft Servers



- *Pillars of a great Administration*
 - *Design for security for On-Prem and Azure*
 - *Design for performance and scalability with Azure*
 - *Design for efficiency and operations*
 - *Design for availability and recoverability*
-

Abilities Validated by the Certification

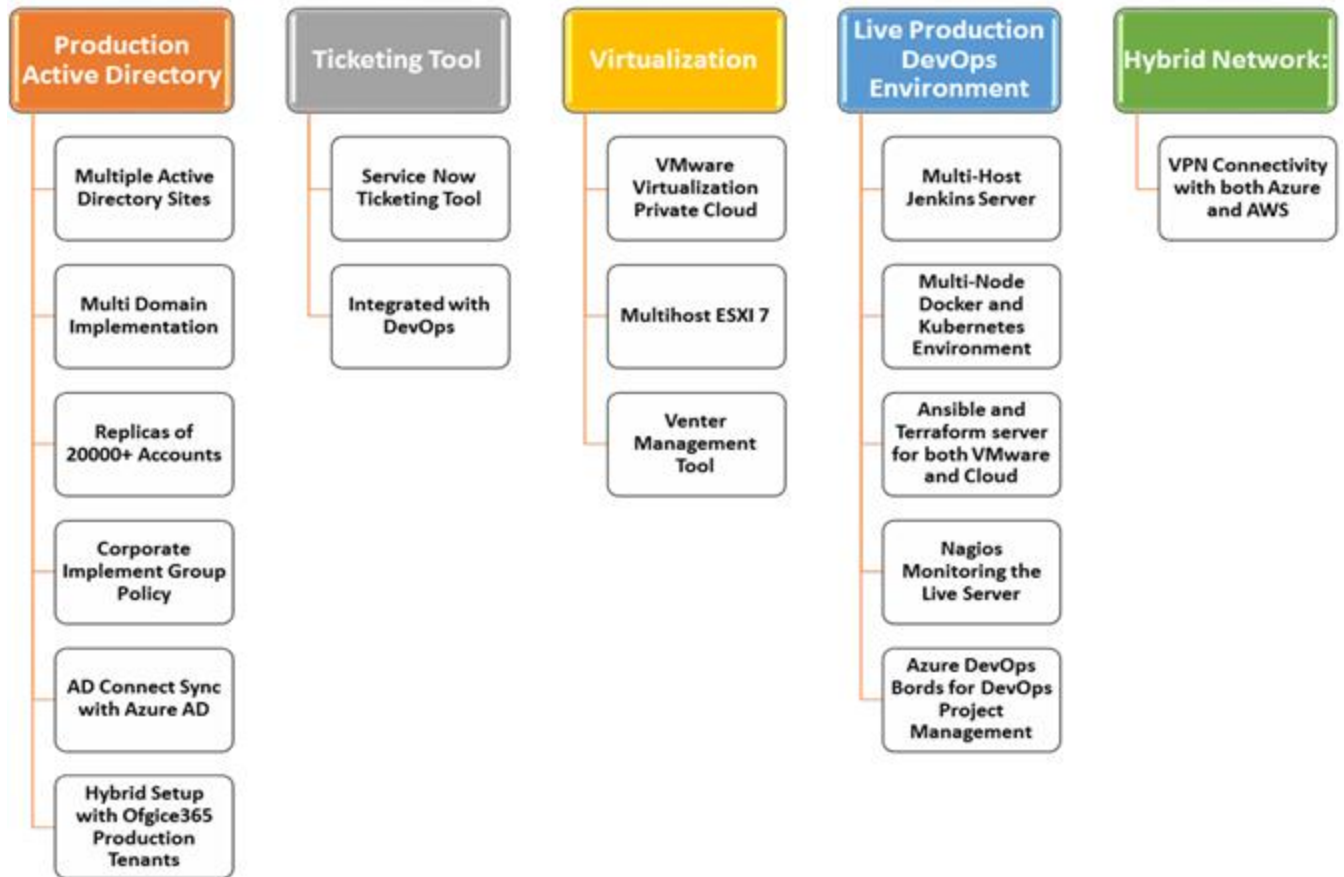
- Deploy and configure infrastructure
- Administrative AD Forest design approach
- Implement workloads and security
- Implement authentication and secure data
- Maintain a highly virtualized environment
- Determine workload requirements
- Design for identity and security
- Design a data platform solution
- Design a business continuity strategy
- Designing, deploying, and maintaining services and infrastructure in a Windows Server environment.
- Design an infrastructure strategy

Customer Immersion – Live Production Walkthrough

6 Hours Live walkthrough the complete 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 (Jason, Yamal)**.

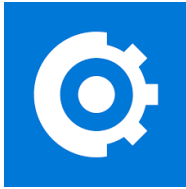
Below is the High-Level Setup Outline of our Customer Immersion Production Replicas. Student will get the access of this setup at end of the course for 6 hours with AD ID and Organization Email.



Certificate of Achievement



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.



Linux Sandbox

- Connect with Linux Self Pace 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.

Learn while doing with our VMware Sandbox Environment

VIRTUAL SANDBOX ENVIRONMENT

- Learn about new solutions which might benefit your business or career in just an hour or less
- Take a challenge lab to validate your skills
- They run the latest versions of the technology you want to learn
- An easy way to study for exams such as VCP or VCAP Deployment exams
- No software needed to run, just a web browser
- No downloads or installations required
- No hardware / compatibility / workarounds or licensing issues



Course Outline

Deploying and Managing Windows Server 2016

- Windows Server 2016 Overview
- Overview of Windows Server 2016 Management
- Installing Windows Server 2016
- Post-Installation Configuration of Windows Server 2016
- Introduction to Windows PowerShell

Active Directory Domain Services

- Overview of AD DS
- Overview of RODC
- Overview of Domain Controllers
- Installing a Domain Controller
- Administering AD DS
- Managing the AD DS Database
- Overview of Distributed AD DS Deployments
- Deploying a Distributed AD DS Environment
- Configuring AD DS Trusts
- Overview of AD DS Replication
- Configuring AD DS Sites
- Configuring and Monitoring AD DS Replication

Managing Active Directory Domain Services Objects

- Managing User Accounts
- Managing Group Accounts
- Managing Computer Accounts
- Delegating Administration

Implementing Group Policy

- Overview of Group Policy
- Implementing and Administering Group Policy Objects (GPOs)
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs
- Group Policy Processing
- Implementing a Central Store for Administrative Templates

Securing Windows Servers Using Group Policy Objects

- Windows Security Overview
- Configuring Security Settings
- Restricting Software
- Configuring Windows Firewall with Advanced Security

Automating Active Directory Domain Services Administration

- Using Command-line Tools for Administration
- Using Windows PowerShell for Administration
- Performing Bulk Operations with Windows PowerShell

Implementing Access Control

- Overview of Access Control
- Planning for Access Control
- Deploying Access Control

Implementing IPv4

- Overview of TCP/IP
- Understanding IPv4 Addressing
- Subnetting and Supernetting
- Configuring and Troubleshooting IPv4

Implementing DHCP

- Installing a DHCP Server Role
- Configuring DHCP Scopes

- Managing a DHCP Database
- Securing and Monitoring DHCP

Implementing DNS

- Name Resolution for Windows Client and Servers
- Installing and Managing a DNS Server
- Managing DNS Zones
- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS

Implementing Web Service

- Overview of IIS
- Install and Configure Web Server
- How to Configure Virtual Directory
- IIS permission
- Windows Integrated and Anonymous Access
- Create Sites in IIS
- Enable Logging on IIS web Server
- How to Configure web site SSL Certificate

Implementing File and Print Services

- Install the File and Print Services Role on windows server 2016
- Create the File Hierarchy and Implement NTFS Security
- Publish the Folder using Share Option in File Server
- Enable Share Level Permission
- Securing Files and Folders
- Configure File Server Quota
- Install Network Printer Driver

- Configuring Network Printing
- Share the Printer and Implement Printer permission

Implementing Server Virtualization with Hyper-V

- Overview of Virtualization Technologies
- Implementing Hyper-V
- Create Virtual Machine
- Managing Virtual Machine Storage
- Managing Virtual Networks
- Overview of Failover Clustering
- Overview a Multi-Site Failover Cluster

Implementing Update Management

- Overview of WSUS
- Create the Inventory of Computer System
- Down the Updated from Windows Update
- Deploying Updates with WSUS
- Review the compliance Reports

Monitoring Windows Server 2016

- Monitoring Tools
- Using Performance Monitor
- Configure Performance Counter for CPU, Memory and Disk Utilization
- Monitoring Event Logs
- Filter Logs on the basis of Event ID
- Save the logs
- Configure the Performance Logs Size

Implementing Active Directory Certificate Services

- PKI Overview
- Deploying Standalone or Hierarchical CAs
- Deploying and Configuring CA Hierarchy
- Deploying and Managing Certificate Templates

- Implementing Certificate Distribution and Revocation
- Managing Certificate Recovery

Implementing Disaster Recovery

- Overview of Disaster Recovery
- Implementing Windows Server Backup
- Implementing Server and Data Recovery

Project

Project 1: Design and Implement an Active Directivity Infrastructure for a multi branch company.

Project 2: Sync the On-Prem Active Directory Identity with Azure AD for hybrid Identity Management

Course Fee

Call for Price