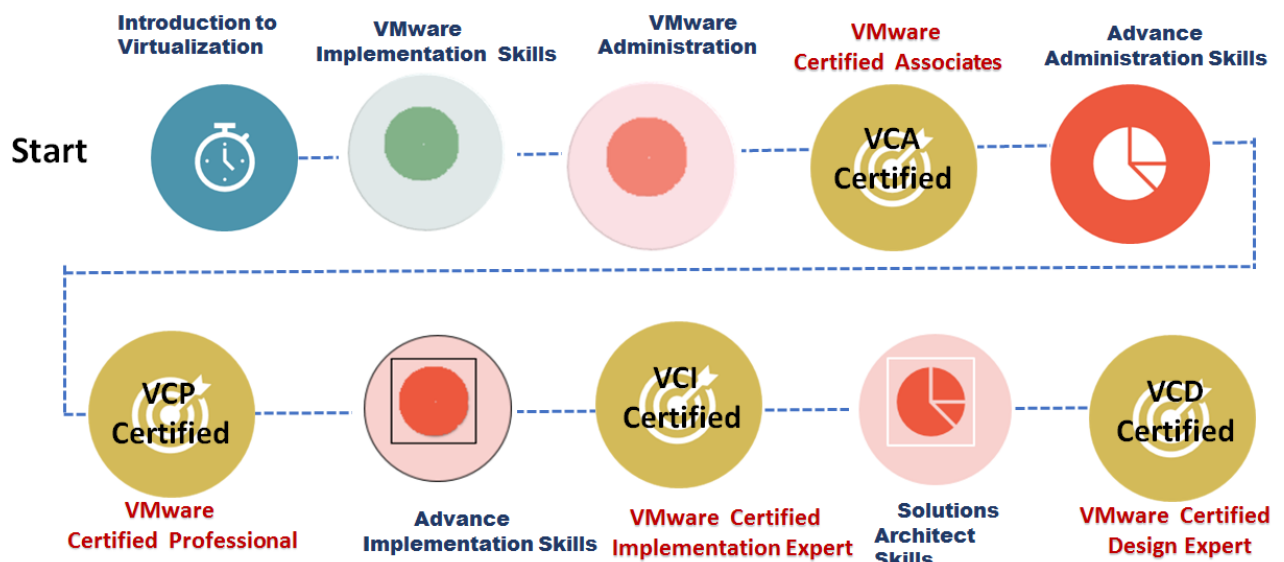# QUOTATION AND COURSE OUTLINE

TECHPLEDGE CERTFIED VMWARE PROFESSIONAL

VMWARE VSPHERE 7 BASIC AND ADVANCE COURSE
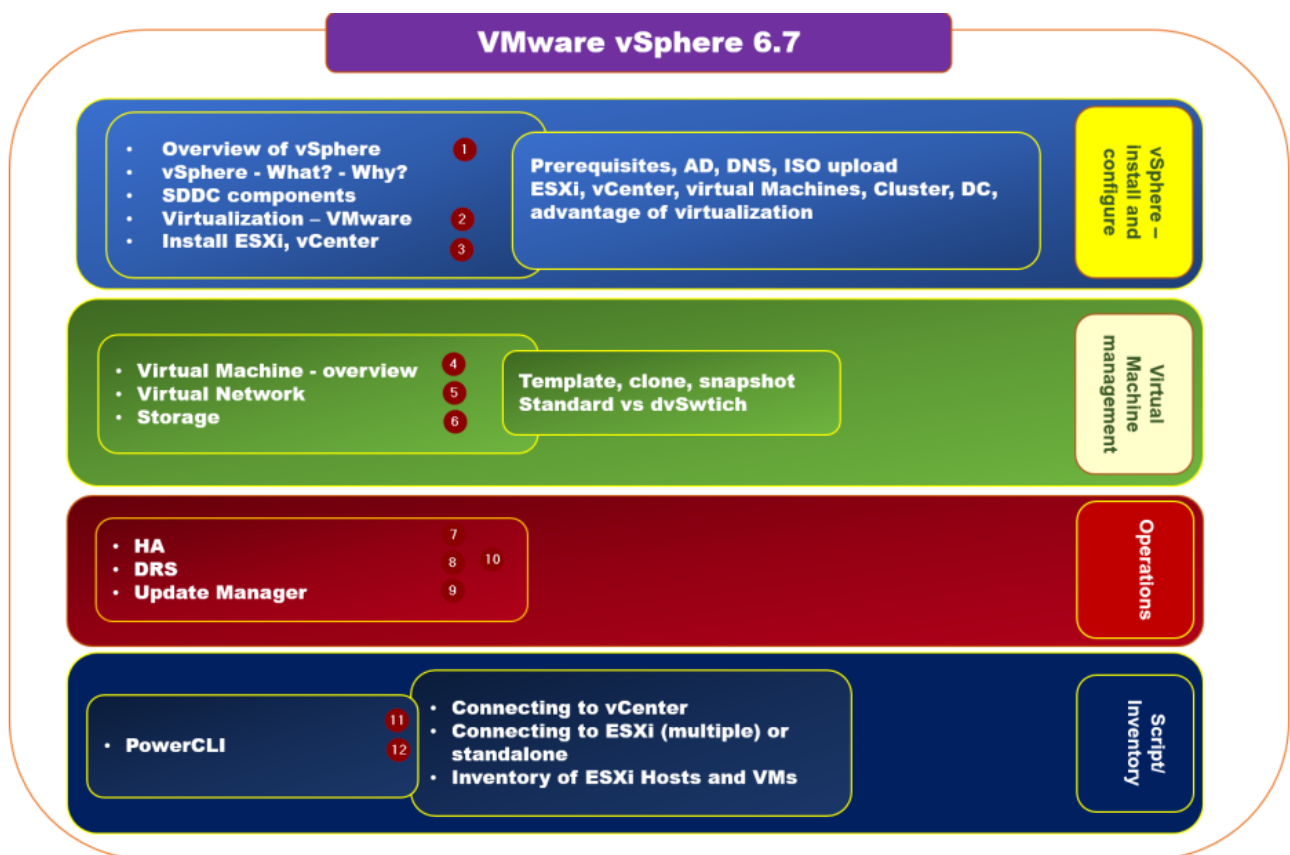
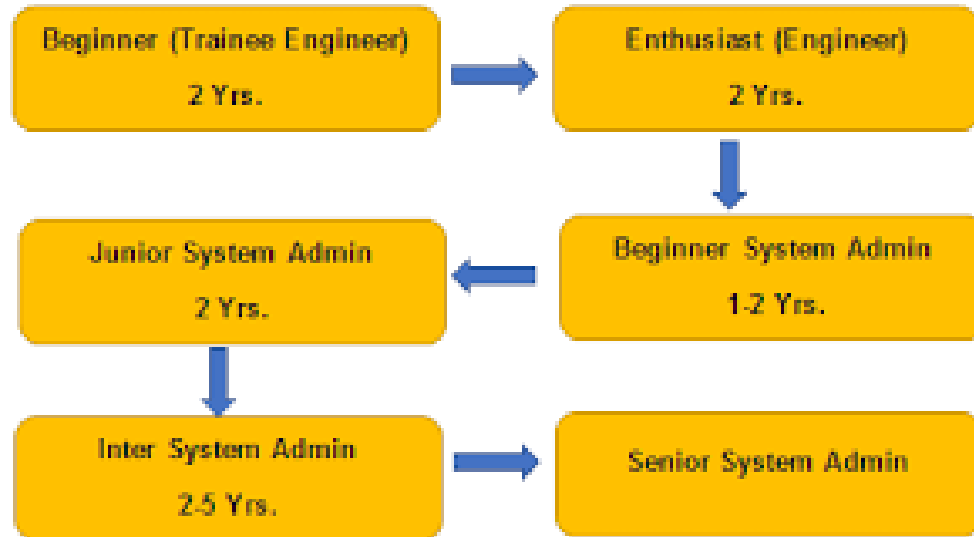## Learning Path - VMware Professional

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 VMware Professional Professional

Today's System Administrator need to have a diverse set of skills which include managing and maintaining the **VMware infrastructure**. At the TechPledge we provide the training which is always updated inline with the VMware Professional Skills required by the industry and recommended by Industry. Below is the patch for training.

VMware vSphere 6.7

- Overview of vSphere
- vSphere - What? - Why?
- SDDC components
- Virtualization – VMware
- Install ESXi, vCenter

1
2
3

Prerequisites, AD, DNS, ISO upload ESXi, vCenter, virtual Machines, Cluster, DC, advantage of virtualization

vSphere – Install and configure

- Virtual Machine - overview
- Virtual Network
- Storage

4
5
6

Template, clone, snapshot Standard vs dvSwtich

Virtual Machine management

- HA
- DRS
- Update Manager

7
8 10
9

Operations

- PowerCLI

11
12

- Connecting to vCenter
- Connecting to ESXi (multiple) or standalone
- Inventory of ESXi Hosts and VMs

Script/ Inventory

Career Path for VMware Administrator

Beginner (Trainee Engineer) 2 Yrs.	→	Enthusiast (Engineer) 2 Yrs.

Junior System Admin 2 Yrs.	←	Beginner System Admin 1-2 Yrs.

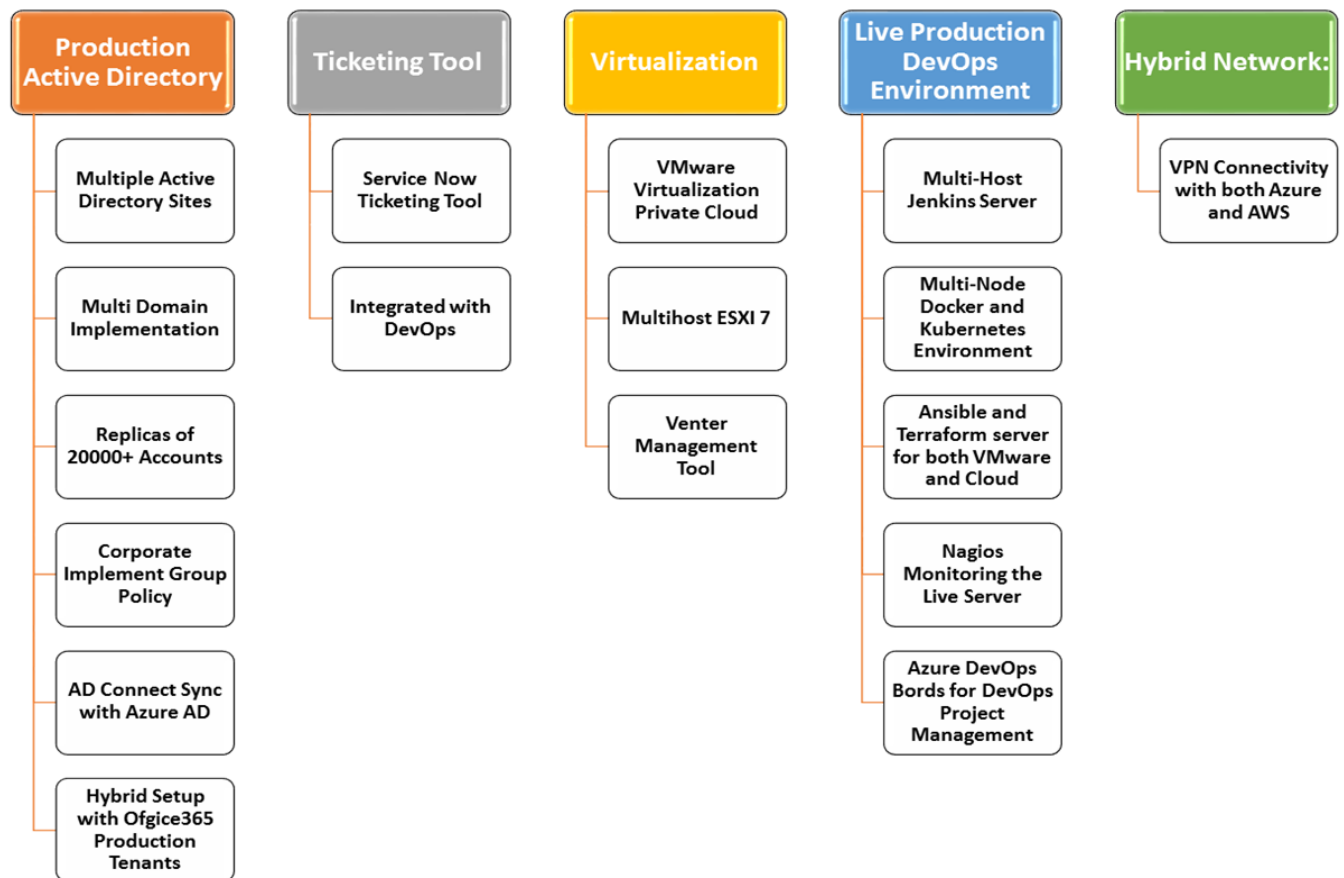| Inter System Admin 2-5 Yrs.	→	Senior System Admin

Customer Immersion – Live Production Walkthrough

6 Hours Live walkthrough the complete **VMware Administration & Management** Process in production environment with full setup of Infrastructure Like **AD,** DevOps Tool Like **Jenkins , Ansible , Docker , AWS Code Deploy , AWS Code Pipeline , Azure Pipeline** and **Azure ARM** and Development Environment with R Studio, Python , SQL Database , Maven, Visual Studio and AI Tools . **We have production replica of VMware With Multi Server Node deployed with VSAN, vSphere 7, vCenter , Virtual Appliance and NSX**

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.

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 VMware Sandbox Environment

VIRTUAL SANDBOX ENVIORNMENT

- 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

Introduction To Virtualization
- How To Build A Virtual Environment
- Hardware Virtualization
- VMware vSphere Components and Features

Build Your Very Own VMware Hands-On-Labs
- Build Your VMware vSphere 7 Home Lab
- VMware Lab by TechPledge
- My VMware vSphere 7 Lab Setup
- Downloading VMware Workstation And Hypervisor ESXi 7 For Free
- Create A Virtual Host with The ESXi 7 Hardware Requirements

Install and Configure ESXi 7 Hypervisor
- ESXi 7 Installation Step By Step
- ESXi 7 System Customization: Network management
- ESXi 7 System Customization: Troubleshooting and System Logs
- Login To ESXi 7 With vSphere Web Client
- Overview of ESXi 7 User Interface: Assign a License Key

Creating & Managing Virtual Machines
- Creating a New Virtual Machine: Choose The Name and The OS
- Creating a New VM: Thick And Thin-Provisioned Disks, CPU, RAM
- Overview Of A Virtual Machine Options
- VMware Remote Console
- Power On/Off A Virtual Machine
- Install VMware Tools In A Windows Virtual Machine
  Files That Make Up A Virtual Machine
- OVF and OVA File Formats and Templates
- Creating New Virtual Machines

vCenter Server 7: Installation & Management
- Introduction to vCenter Server 7: Windows Hardware Requirements
- Setting Up Domain Controller Functionality
- Joining The Vcenter Machine to an Active Directory Domain
- Downloading VMware vCenter Server 7 For windows
- Install vCenter Server 7 for Windows
- Configuring vCenter 7 Single Sign On
- vCenter 7 Single Sign-On Web client
- Overview of vCenter Server 7 User Interface

- Add an ESXi Host to the vCenter Server Inventory (Datacenter)
- Difference Between ESXi And vCenter Server User Interface
- Managing ESXi Hosts in vCenter Server
- Creating A Virtual Machine In vCenter Server
- Work in Progress Panel

Cloning A Virtual Machine
- Understanding Clones - VMware
- Cloning a Windows Virtual Machine: Destination Host
- Preview
- Cloning a Windows Virtual machine
- New VM Guest Customization Specification: Network Configuration
- Run and Complete The Process of Cloning a VM
- Cloning a Linux Virtual machine

Virtual Machine Template
- Introduction To VMware Template
- Clone A Virtual Machine To A Template
- Deploy a Virtual Machine from a Template
- Clone to Template in Content Library

User Permissions And Privilege
- Introduction to User Permissions
- Create User, Manage Permission
- Create and Customize User Roles
- Log in With a Custom User Roles
- Create User, Manage Permission at vCenter Server 7 Level
- Create a New User and Roles at vCenter Server 7 Level

vNetwork Standard Switches
- Introduction To Virtual Network Standard Switches
- Types of Virtual Switch Available in VMware ESXi 7
- ESXi 7 Host Networking Concepts Overview
- The VMkernel, The Port Group and The Physical Adapters
- Adding More Physical Network Adapter
- Add a Physical Adapter to A Standard Switch for Redundancy
- Types of Virtual Standard Switch Connections
- Create and Manage A New Standard switch From ESXi 7 UI
- Add a Virtual Machine Port Group to a Standard Switch
- Add a VMkernel Port Group to a Standard Switch
- Creating a Private Network Port Group
- Create and Manage a Standard switch from vCenter Server 7 UI

vNetwork Distributed Switch

- Overview of vNetwork Distributed Switch concepts
- Add a New vSphere Distributed Switch
- Create A New Distributed Port Group
- Uplink Port Group: Add Hosts to a vSphere Distributed Switch
- Migrate VMs to Another Network
- Migrate VMkernel Adapters to Another Network
- Export and Restore Distributed Switch Configuration

vSphere Storage: External and Shared Storage

- Introduction to External and Shared Storage
- VMware Storage Technologies Overview
- vSphere iSCSI SAN components
- vSphere NFS storage components
- Fiber Channel (FC) SAN Components
- Create A New VMFS Local Datastore
- Deploying a Virtual Machine on Virtual SAN (vSAN)

vSphere Disaster Recovery

- Disaster recovery Overview
- VMware High Availability
- Cloning and Snapshots
- Backups
- Overview VMware Failover Cluster

Course Fee

Call for Price