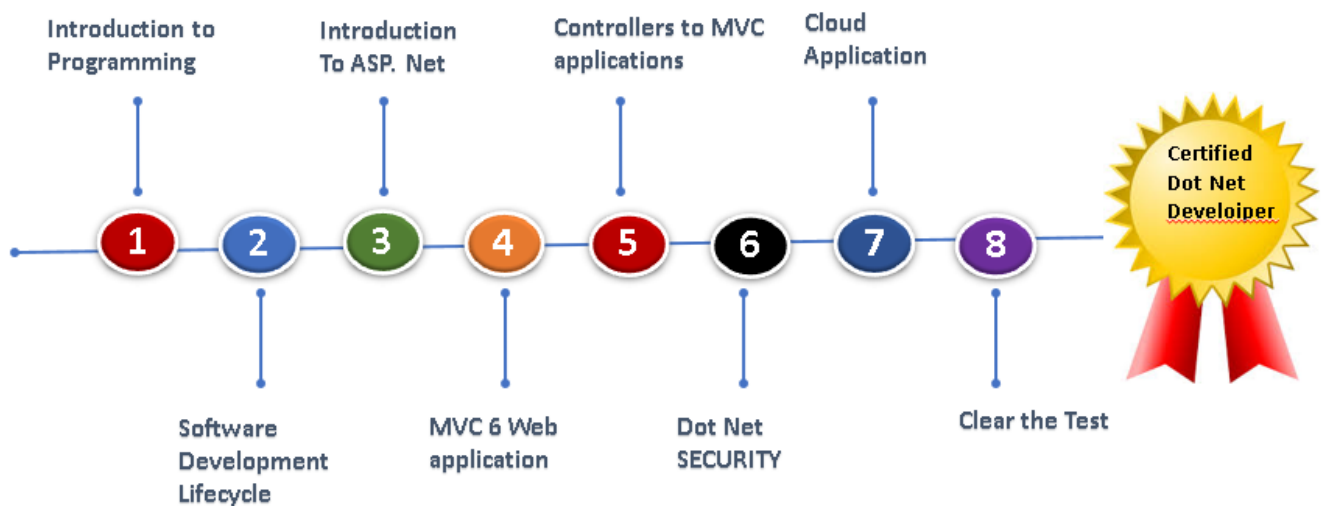




QUOTATION AND COURSE OUTLINE

TECHPLEDGE CERTIFIED ASP DOT NET DEVELOPER

SOFTWARE DEVELOPMENT WITH ASP DOT NET



Course Materials

TechPledge will provide a customized set of Lecture Notes for each class scheduled along with Recorded 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 ASP .Net Developer

Today's Software Developer need to have a diverse set of skills which include able to write programs that include Web App , MVC applications , Create View and App for Cloud etc. which business insights can be derived. At the TechPledge we provide the training which is always updated inline with the ASP .Net Development Skills required by the industry and recommended by Industry. Below is the patch for training

Software Development



- *significance of Machine Level Programming in today's digitally-driven world*
- *applications of ASP .Net*
- *lifecycle of Software development*
- *Decision Making Logics*

Software Development with ASP .Net



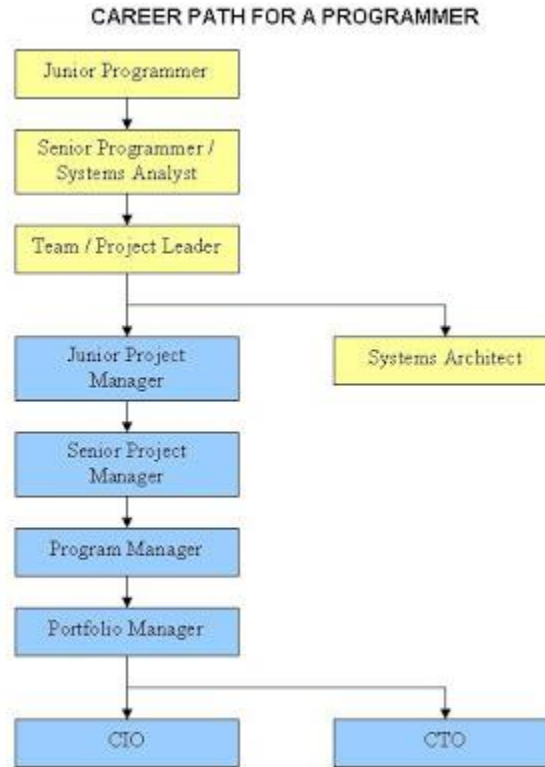
- *Learn to Write code that implements business logic within Model methods, properties, and events.*
- *Adding Controller to MVC app*
- *performance-oriented programming (e.g. gaming engines, GPU/scientific computations, cryptography).*

Software Development in ASP .Net



- *Learn the typical design process that architects must complete when they plan an MVC 6 application*
- *The go-to GUI framework for ASP .Net*
- *Object Oriented Programming*
- *Choose and implement an appropriate deployment pattern to*

Career Path for ASP Dot Net Developer

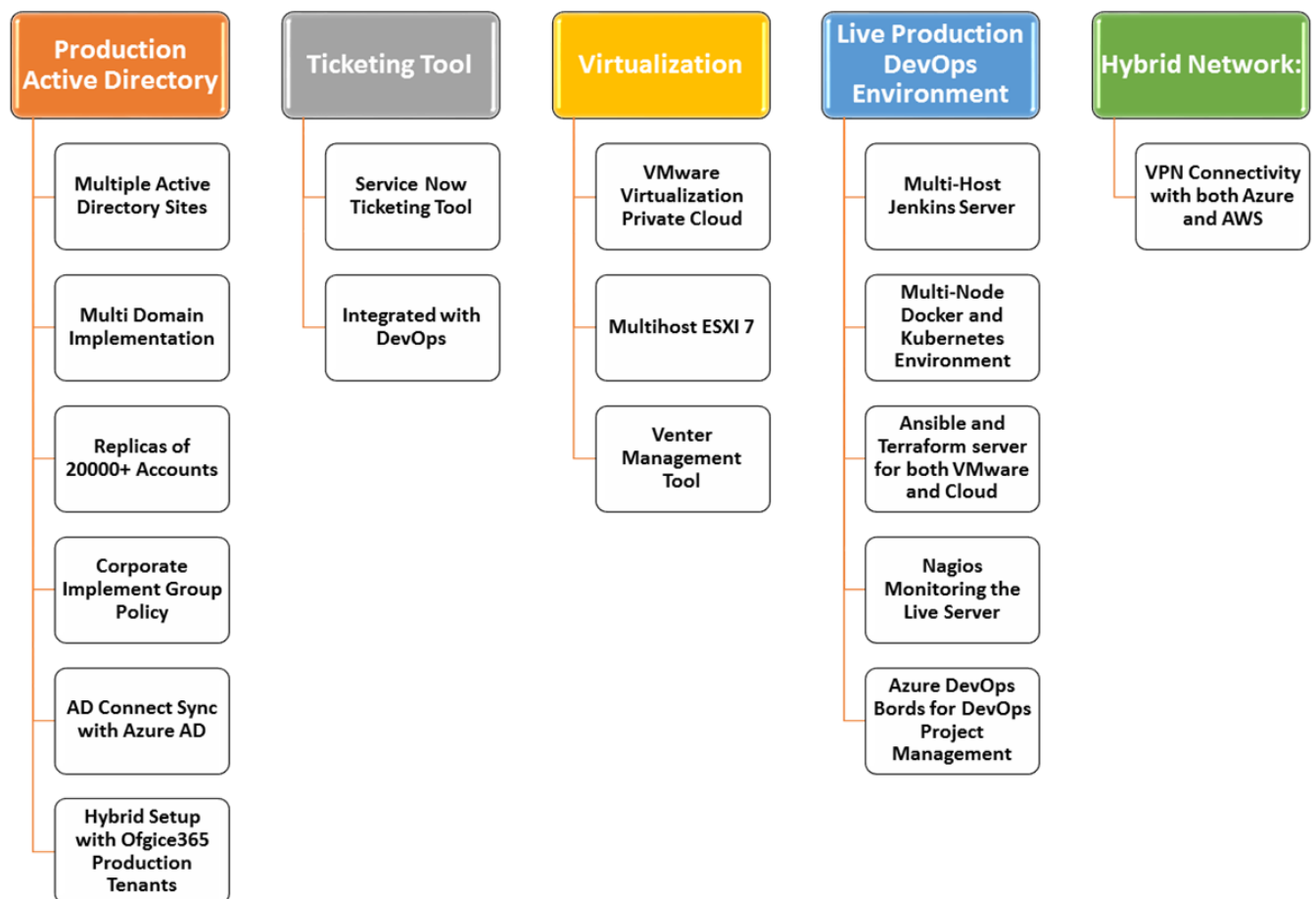


Customer Immersion – Live Production Walkthrough

6 Hours Live walkthrough the complete ASP Dot Net Application 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 Maven, Visual Studio and Python. **Data Scient and Data Factory with R Programming and Python**

The Complete Setups is using **100** of **PowerShell**, Linux **Script** , **C** and **C++ Script** and **Applications** 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.



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 Web Applications [Prerequisites]

- Types of Applications – Web, Desktop & Mobile Applications
- Web applications with Web Server
- Web Server role, about IIS, APACHE, and CASSINI
- Web Browsers, Web Support Languages
- Understanding http, TCP/IP, LAN, WAN & O/S role in web development
- Why Scripting & its importance
- Client-Side & Server-Side Scripting

Exploring ASP .NET Core

- Overview of Microsoft Web Technologies
- Overview of ASP.NET Core
- ASP.NET Label
- ASP.NET Text Box
- ASP.NET Button
- ASP.NET Hyperlink
- ASP.NET Radio Button
- ASP.NET Calendar
- ASP.NET Checkbox
- ASP.NET Link Button
- ASP.NET File Upload
- Multiple File Upload
- ASP.NET Download File
- ASP.NET Cookie
- ASP.NET Session
- ASP.NET Drop Down List
- ASP.NET Data List
- ASP.NET DataGrid

- WF User Registration
- WF Events Handling
- WF Authentication
- WF Model Binding
- Introduction to ASP.NET Core MVC 6
- **Lab1:** Exploring ASP .NET Core Framework, Pages , Views and Core Applications
- **Lab2:** Design sample application with different controls

SP .Net Raxor

- Razor Code Expressions
- Razor Code Blocks
- Razor Control Structures
- Razor HTML Helpers
- Razor Partial View sg
- **Lab 3:** Design ASP .NET Razor Application

Designing ASP .Net Core MVC and Web Applications

- Planning in the Project Design Phase
- Basics of Services
- Designing Models, Controllers, and Views
- Basics of Dot Net Core Middleware
- Architecting an MVC Web Application
- **Lab 4:** Designing ASP.NET MVC 6 Web Applications (Planning Model Classes, Planning Controllers, Views, Services etc.)
- **Lab 5:** Create your first MVC Application

Developing ASP.NET MVC 6 Models

- Creating an MVC Project and Adding a Model
- Microsoft Azure SQL Database
- Working with Data

- **Lab 6:** Developing ASP.NET MVC 6 Models
- **Lab 7:** Creating a New Microsoft Azure SQL Database

ADO.NET DATABASE SERVICES

- Overview of ADO.NET/ XML Support in .NET
- ADO.NET Data Providers
- ADO.NET SQL Server
- ADO.NET Connection
- ADO.NET Command
- ADO.NET Data Reader
- ADO.NET Data Set
- ADO.NET Data Adapter
- ADO.NET Data Tables
- ADO.NET WF Example
- ADO.NET MVC Example
- Connect/Insert/Update/Delete, Query data -using ADO.NET
- Retrieve data with datasets
- Data Adapters, Understanding Data tables
- Build Data table programmatically
- Filter and sort Data table, Data Relations
- **Lab 8:** Create an Application to work with database
- **Lab 9:** Connect/Insert/Update/Delete, Query data -using ADO.NET

Developing ASP.NET MVC 6 Controllers

- Writing Controllers and Actions
- Writing Async Action
- MVC Action Selectors
- Writing API in Controllers
- Writing Action Filters
- **Lab 10:** Adding an MVC Controller and Writing the Actions
- **Lab 11:** Writing Async Action with TASK
- **Lab 12:** Developing ASP.NET MVC 6 Controllers

Developing ASP.NET MVC 6 Views and Pages

- Creating Views with Razor Syntax
- Using TAG Helpers
- Re-using Code in Views
- Accessing data in Razor Views
- Binding of Razor Views and Pages
- **Lab 13:** Developing ASP.NET MVC 6 Views and Pages
- **Lab 14:** Creating Views with Razor Syntax

ASP.NET WEB APPLICATIONS

- About Session & Application object
- Comparison between Session & Application
- Using the Global. Sax file
- Managing Application State
- Http Handlers
- Application & Session Variables
- Application & Session Events
- **Lab 15:** Create ASP .Net web Applications
- **Lab 16:** Create Application with Session Variables

Testing and Debugging ASP.NET Core MVC 6 Web Applications

- XUnit Testing MVC Components
- Implementing an Exception Handling Strategy
- Configuring Exception Handling
- **Lab 17:** Testing and Debugging ASP.NET Core MVC 6 Web Applications
- **Lab 18:** Performing XUnit Tests

ASP.NET Core MVC 6 Middleware

- Creating Custom Middleware
- Middleware Execution
- Different methods to control middleware execution

- Middleware sequencing concerns
- Terminating middleware
- Pass-through middleware
- Moving middleware into its own class
- **Lab 19:** Creating Custom Middleware Structures
- **Lab 20:** Structuring ASP.NET MVC 5 Web Applications

ASP.NET Core SECURITY

- Security Overview
- Authentication & Authorization
- Windows-based Authentication
- Passport Authentication. (WebServices)
- Forms-based Authentication
- Memberships
- Authorizing Users and Roles
- User Account Impersonation
- **Lab 21:** Creating an application with Authentication
- **Lab 22:** Create a Membership Form

ASP .Net Project – Banking Records System Project.

Project :

This banking record system project in ASP .Net is a simple console application developed without the use of graphics component. It is more of a database project in ASP .Net and is built using the language's file handling mechanism. It is suitable for beginners who want to learn how to add, edit, search, delete or modify records in a file, and how to use file as database overall.

- **Add Record:.**

- **Show/List Data:**
- **Search Record:**
- **Edit Record:**
- **Delete Record:**

Course Fee
