

## ASP.NET MVC Course Content

### 1. Introduction to MVC

- A Brief History of Web Development
- Traditional ASP.NET Web Forms
- Benefits of ASP.NET MVC

### 2. MVC Architecture

### 3. The MVC Pattern

- The MVC architecture pattern
- Domain models and Repositories

### 4. Essential Language Features

- Automatically Implemented Properties
- Using Object and Collection Initializers
- Entity Framework
- Lambda Expressions

### 5. Working with Controllers

- Introducing the Controller

### 6. Model Templates

- Templated View Helpers
- Using Metadata for Data Values

### 7. Model Validation

- Explicitly Validating a Model
- Displaying Validation Messages
- Alternative Validation Techniques
- Security and Authentication

### 8. Working with Views

- Working with the ASPX engine
- Working with the Razor Engine
- Converting ASPX View to Razor View

- Partial Views
- Adding Dynamic Content to a Razor View
  - Inline code
  - Partial Views

## 9. Working with URLs and Routing

- About Routing
- Understanding the Routing Mechanism
- Adding a Route Entry
- Using Parameters
- Using Defaults
- Using Constraints

## 10. Working with Areas

- Setting Up Areas
- Actions in Areas
- Routing and URL Generation with Areas

## 11. Ajax and Client Scripting

- ASP.NET MVC's Ajax Helpers
- Using jQuery with ASP.NET MVC

## 12. Security

- Authentication
- Authorization
- Cross-site scripting ( XSS )