

# ASP.Net MVC Training Course

<p><b>Understand Project Definition</b></p> <p><b>Create Wireframe Of Project</b></p> <p><b>Prepare Project Documentation</b></p> <p><b>Basic fundamental of HTML &amp; CSS</b></p> <p><b>Introduction to ASP.NET MVC</b></p> <ul style="list-style-type: none"><li>• The role of the Model, View, and Controller</li><li>• Key benefits of ASP.NET MVC</li></ul> <p><b>Getting Started with ASP.NET MVC</b></p> <ul style="list-style-type: none"><li>• ASP.NET MVC project templates</li><li>• Understanding the structure of an ASP.NET MVC project</li><li>• Naming conventions</li><li>• Creating views</li><li>• Defining controllers</li><li>• Defining a data model</li></ul> <p><b>Creating a Complete ASP.NET MVC Application</b></p> <ul style="list-style-type: none"><li>• Creating strongly-typed views</li><li>• Understanding URLs and action methods</li><li>• Using HTML helpers</li><li>• Handling form post-backs</li><li>• Data validation</li></ul>	<p><b>Using the Razor View Engine</b></p> <ul style="list-style-type: none"><li>• Getting started with Razor</li><li>• Razor design goals</li><li>• Implementing a Razor view</li><li>• Razor syntax</li><li>• Accessing Model Data in Razor views</li></ul> <p><b>Industrial-Strength ASP.NET MVC Applications</b></p> <ul style="list-style-type: none"><li>• ASP.NET application architecture best practices</li><li>• Implementing a Repository and Entity Framework Data Model</li><li>• Using Dependency Injection</li><li>• Implementing a custom controller factory</li></ul> <p><b>View Techniques</b></p> <ul style="list-style-type: none"><li>• Defining and using custom HTML Helpers</li><li>• Defining a layout / MVC Master Page</li><li>• Using Styles</li><li>• Defining and using partial views</li><li>• Razor Helper Method syntax</li></ul>
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305, 3rd Floor, Vinayak Gold Complex, Nr. Kamlanagar Lake, Ajwa Road, Vadodara - 390019.  
(Mobile) 9033701373 | (Email) [contact@nkdroidsolutions.com](mailto:contact@nkdroidsolutions.com)

### **Implementing Navigation in MVC web apps**

- Defining view-model classes
- Implementing Data Filtering in a Controller2
- Understanding the Routing mechanism
- Adding custom entries to a route table
- Defining defaults, parameters, and validation
- Generating URLs and Hyperlinks
- Custom Route constraints

### **MVC State Management**

- Using hidden fields
- Session and Application State
- Custom model bindings

### **Additional Techniques**

- View Scaffold Templates
- Controller Scaffold Templates
- Global Filters
- Model binding
- Asynchronous Controllers

### **Using AJAX and jQuery with ASP.NET MVC**

- Overview of AJAX and ASP.NET MVC
- Unobtrusive AJAX
- Using AJAX Action Links
- Overview of jQuery
- jQuery Techniques
- Using jQuery UI

### **ASP.NET MVC & LINQ - working with Data**

- Language features used in LINQ
- Creating simple LINQ queries
- Using LINQ queries in a Web application;
- Defining a data repository;
- Using LINQ to define a data access component

### **ASP.NET MVC Techniques & Best Practices**

- View scaffold templates
- Controller scaffold templates
- Dependency injection

### **ASP.NET Web API with MVC**

- Overview of the ASP.NET Web API
- Building servers and clients
- Content negotiation
- Validation
- Query able Interfaces
- Dependency Injection

### **Build Project step by step**

- New things related to project Definition