[.NET-A]
[C#/ADO/ASP/MVC.NET]

Note:- 1] Syllabus contain Main topics of language, all sub topics teach into training.

2] Training Certificate will provide.

Training Summary

* C# Theoretical.

* C# Practical.

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ADO.NET Theoretical.

ADO.NET Practical.

ASP.NET Theoretical.

ASP.NET Practical.

MVC.NET Theoretical.

MVC.NET Practical.

1ˢᵗ Test on Theoretical of C#/ADO/ASP/MVC.NET

2ⁿᵈ Test on Practical of C#/ADO/ASP/MVC.NET

1ˢᵗ Project on C#

#2ⁿᵈ Project on ASP.NET

.NET Syllabus

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.Net (C#)

1. **An Introduction to C#**
   - What is .NET?
   - What is the CLR?
   - The FCL
   - Primitive Types
   - Namespaces
   - Statements and Expressions
   - Operators

2. **Classes and Objects**
   - Constructors
   - Reference Types
   - Object Oriented Programming

- Inheritance
- Access Modifiers
- Abstract Classes
- Virtual Members
- Static Classes
- Sealed Classes
- Partial Classes

3. **C# - Types**
   - Reference Types
   - Value Types
   - Struct
   - Reference Types
   - Value Types
   - Strings
   - Boxing
   - The enum
   - Defining Types
   - Interfaces
   - Arrays
   - Assemblies

4. **C# - Events, Properties, and Methods**
   - Methods
   - Method Overloading
   - Fields
   - Properties
   - Events
   - Indexers
   - Operator Overloading
   - Conversion Operators

5. **C# - Flow Control and Exceptions**

- Switching
- Looping
- Using for each
- Throwing Exceptions
- Built-in Exceptions
- Handling Exceptions
- Finally

6. **C# and the CLR**
   - Garbage Collection
   - Threads

7. **Object Oriented Programming with C#**
   - Encapsulation
   - Abstractions
   - Interface

8. **Functional Programming with C#**
   - Abstraction
   - Multithreading

9. **Exploring the .NET Framework**
   - File I/O
   - Resource management with try/finally/usin
   - Array List
   - Hash table
   - Sorted List
   - Stack and Queue

10. **Windows Form**
    - Introduction to Windows Form
    - Form Controls
    - User Define Controls

11.ADO.NET

- Connected Architecture
- Disconnected Architecture
- Working with Transaction

ASP.NET& ASP.NET MVC

1. **ASP.NET**

- Web Application using ASP.NET
- ASP.NET Architecture
- Control-based Programming
- User Interface Elements
- Deployment
- Web Sites, Applications, and Virtual Directories in IIS
- ASP.NET Diagnostics and Health Monitoring

2. **ASP.NET Working With Data**

- Data Binding
- State Management
- Validation
- Caching

3. **ASP.NET 3.5 Security**

- IIS 6 & IIS7 URL Authorization
- Forms authentication
- Role-based authorization

4. **ASP.NET 3.5 Advanced Topics**

- HTTP Pipeline

- Custom Controls
- Web Parts
- Web Services

5. **ASP.NET AJAX**
   - ASP.NET Ajax Introduction
   - ASP.NET Ajax Server Controls
   - ASP.NET Ajax Server Data
   - ASP.NET Ajax Client-side Library
   - ASP.NET Ajax Control Toolkit

6. **ASP.NET MVC**
   - Web Application using MVC Pattern
   - Razor View
   - Controller
   - Model

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7. **Entity Framework**
   - Introducing the Entity Framework
   - Code First Approach