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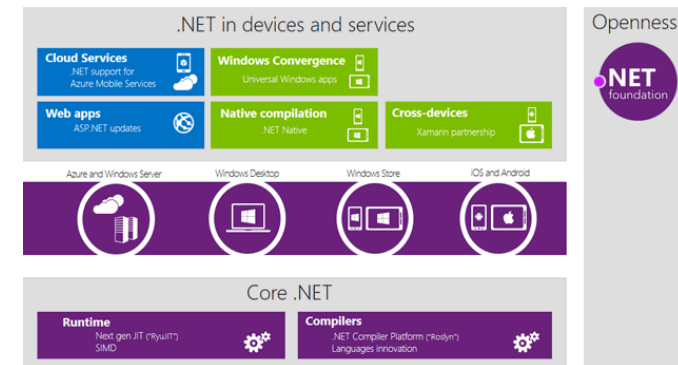ICT Trainings Institute – Engineering Your Career

ASP.NET

Course Guide

Microsoft Certified Solutions Developer – Web Applications is based on .NET technologies covers ASP.Net and C#. Program provides a comprehensive and consistent programming base for building applications that have visually stunning user experiences.

Courses can add towards no of MCSD Certifications:

MCP – Dev. ASP.NET MVC Web Apps – Exam 70-486
MCSD – Web Applications [Covers 1 Exam]
MCSD – SharePoint Applications [Covers 1 Exam]

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ASP.NET Course Contents

ASP.NET training curriculum follows the Microsoft standards and is designed to meet the requirements of next generation programming needs.

C Sharp (C#)

Getting Started
- Installing Visual Studio
- Creating a console application

Language Fundamentals
- Everything is an object
- Understanding C# syntax
- Identifier naming conventions
- Using the documentation

Declaring Variables
- Using built-in data types
- Declaring variables
- Working with characters, Strings
- Building strings with StringBuilder
- Parsing strings as numbers
- Using mathematical operators
- Working with Boolean values and expressions
- Using constants and enumerations
- Working with dates and times
- Using simple arrays

Managing Application Flow
- Getting input in a console application
- Evaluating conditions with if and else
- Evaluating conditions with switch statements
- Looping with for statements
- Looping with while and do statements
- Looping with foreach and in
- Creating reusable code with methods
- Managing variable visibility and scope
- Managing flow with break and continue
- Challenge: Building a simple calculator application
- Solution: Building a simple calculator application

Exception Handling and Debugging
- Understanding runtime exceptions
- Debugging exceptions in your code
- Handling exceptions with try/catch
- Using multiple catch statements
- Cleaning up with finally

Creating Custom Classes

- Defining a class with static methods
- Representing data with plain-old class objects
- Declaring private fields and public properties
- Declaring properties with shorthand get and set methods
- Overriding the ToString() method
- Adding multiple constructor methods
- Organizing classes with namespaces

Working with Inheritance and Polymorphism
- Extending a class to create a new class
- Overriding and calling base class methods
- Creating methods that accept sub-classed objects

Programming Web Applications with ASP.NET

Overview of .NET & Web Technologies
- Overview of Microsoft Web Technologies
- Overview of ASP.NET
- Introduction to ASP.NET MVC

Designing ASP.NET MVC Web Applications
- Planning in the Project Design Phase
- Designing Models, Controllers, and Views

Developing ASP.NET MVC Models
- Creating MVC Models
- Working with Data

Developing ASP.NET MVC Controllers
- Writing Controllers and Actions
- Writing Action Filters
- Add Controllers to an MVC Application to manage user interaction, update models, and select and return Views.

Developing ASP.NET MVC Views
- Creating Views with Razor Syntax
- Using HTML Helpers
- Reusing Code in Views

Testing and Debugging ASP.NET MVC Web Applications
- Unit Testing MVC Components
- Implementing an Exception Handling Strategy

Structuring ASP.NET MVC Web Applications
- Analyzing Information Architecture
- Configuring Routes
- Creating a Navigation Structure

Applying Styles to ASP.NET MVC Web Applications
- Using Template Views
- Applying CSS to an MVC Application
- Creating an Adaptive User Interface

Building Responsive Pages in ASP.NET MVC Web Applications
- Using AJAX and Partial Page Updates
- Implementing a Caching Strategy

Using JavaScript and jQuery for Responsive MVC Web Applications
- Rendering and Executing JavaScript Code
- Using jQuery and jQueryUI

Controlling Access to ASP.NET MVC Web Applications
- Implementing Authentication and Authorization

Building a Resilient ASP.NET MVC Web Application
- Developing Secure Sites
- State Management

Implementing Web APIs in ASP.NET MVC Web Applications
- Developing a Web API
- Calling a Web API from Mobile and Web Applications

Deploying ASP.NET MVC Web Applications
- Deploying a Web Application
- Deploying an MVC Application

Practical Approach
- A real example will be given throughout the lectures, starting from design, analysis, implementation and maintenance.

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