

Registered Office:

7-Way Lane, Ram Mohan Rai Marg, Lucknow-226001

Tel/Fax:91-522-2205664/2205665



Course Content for ASP.Net 2012 with C# / SQL **Server 2012**

Introduction -----Day 1

- (1) About Company
- (2) About Professional Project Training
- (3) About tools/technologies used
- (4) About .NET Architecture
- (5) Internet Basics
- (6) Web Programming
- (7) Kind of Application we develop using Framework-Windows Based, Web Based, Console Based.

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C# -----10 Days

Module 1: C# Language Fundamentals

- Why C# and not VB
- Data types
- Value and reference types
- Branching and looping statements
- Array, Jagged Array and String.
- Boxing and Unboxing.

Module 2: Create Class & Objects

- Define classes
- Create and use objects in client code
- Create classes that use inheritance
- Define interfaces and use polymorphism
- Explain Keywords Sealed, Virtual and Override.
- Understanding Static Keyword

Module 3: Exception Handling

- What is exception handling
- Using try, catch and finally statements
- Creating custom exceptions
- Best practices

Module 4: Create Rich Client Applications with WPF

- Creating an application using WPF
- Using XAML to create the user interface
- Handling control events
- Binding to data to controls

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ASP.Net Basic-----10 Days

Module 5: Introducing The .Net 4.5 Framework

- Architecture of .Net Framework and explanation. (Common Language Runtime(CLR),
- Common Language Specification(CLS) ,CommonType System(CTS), Base Class
- Library(BCL), Garbage Collector, Just-in-Time(JIT) Compiler, Managed Code, UnManaged Code, Native Code/Machine Code, Metadata,Assembly, Namespace, Microsoft Intermediate Language(MSIL).
- Introduction to Asp.net
- Difference between asp and asp.Net.
- Different versions of asp.net technology with their changes.
- Client Server Architecture.
- Distributed Intranet Architecture(DNA).

Module 6: ASP.Net Introduction

- Starting an ASP.Net Project
- Project Files
- Server Controls
- Server Event Handling
- The Page Lifecycle
- State Management(Client-side,server-side).

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SQL -----20 Days

Module 7: SQL Introduction

- Introduction of RDMS, SQL
- Data types.
- Introduction about Primary File(.mdf) , Secondary File(.ndf) and Log File(.ldf).
- Difference Between DDL, DML, DCL, TCL

Module 8: Design A Database

- Define Entities
- Apply Normalisation
- Database Objects
- System Tables
- Defining Databases
- Setting Database Options
- Managing Data and Log File Growth

Module 9 :Implement Tables

- Create Tables
- Adding and Dropping a Column
- Generating Column Values
- Adding Constraints

Module 10: Access and Modify Data

- Selecting Data
- Using Sub Queries
- Select Queries With Joins
- Modifying Data
- Using Where, Order By, Group By, Having, Between, IN, AND, OR, NOT to fetch data from tables
- Wild Cards for search pattern (used with like operator)

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Module 11: Implement View

- Introduction to Views
- Advantages of Views
- Defining Views
- Modifying Data Through Views
- Optimizing Performance by Using View

Module 12: Implement Functions

- Implement Functions
- What Is a User-defined Function?
- Defining User-defined Functions

Module 13: Implementing Stored Procedures

- What Is A Procedure?
- Types Of Stored Procedure
- Creating Stored Procedures
- Declaring Parameters

Module 14: Implement Triggers

- Introduction to Triggers
- Defining Triggers
- How Triggers Work
- Examples of Triggers

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Advance Asp. Net-----20 Days

Module 15: User Interface Development

- Master Pages
- Themes And Skins
- User Controls
- Website Navigation
- Validation Controls

Module 16: Exception Handling

- Adding Try Catch Blocks To Code
- Page Level Exceptions
- Site Level Exceptions
- Custom Error Page

Module 17: Data Access

- What Is ADO.Net
- Connection Object
- Command Object
- Data Readers
- Datasets And Dataadapters
- Using The Datasource Wizard

Module 18: Data Controls:

- GridView.
- DetailsView.
- DataList.
- Repeater.
- List View
- Form View

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Module 19: Creating Responsive Pages With AJAX

- AJAX Architecture
- What Are Partial-Page Updates
- Using The Updatepanel Server Control
- Using Update Progress Control
- using Timer Controls-Client
- using AJAX Toolkit

Module 20: Data Acces With LINQ

- Why Do We Need LINQ
- Querying The Database
- Language Syntax For Querying
- Using The LINQ To SQL

Module 21: Reporting & Deployment

- Working with Crystal Reports.
- About IIS
- IIS installation
- How To Deploy A Web Application

Module 22: Using Windows Communication Foundation (WCF) Services

- Service Orientated Architecture
- WCF Scenarios
- Mechanics Of Communication: Address, Contract, Binding
- Creating A Simple WCF Service
- Calling A WCF Service From A Client Application

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MVC -----10 Days

Module 23 : Getting Started with ASP.NET MVC

- ASP.NET MVC project templates
- Understanding the structure of an ASP.NET MVC project
- Naming conventions
- Creating views
- Defining controllers
- Defining a data model

Module 24 : Creating a Complete ASP.NET MVC Application

- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- Handling form post-backs
- Data validation

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Silverlight -----10 Days

Module 25: Basic of Silverlight

- What is silverlight
- build and run a Silverlight simple page
- What is?
 - app.xaml
 - xap file
 - Page.xaml
- XAML Basic
- XAML Elements

Module 26: Layout and silverlight controls

- Grid
- Stack Panel
- Dock Panel
- Wrap Panel
- Canvas
- Features and use of Silverlight controls by Assignments

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