



Dot net Training Course Content

1) MS.NET Course Content

- MS.NET Framework
- VB.NET and C# Languages
- Developing Console Application
- Language Basics
- Essentials of Object-Oriented Programming
- Working with Classes and Objects
- Working with Collections
- Exception Handling
- Inheritance, Interface & Polymorphism
- C# Features/General Features
- Data Streams and Files
- Working with Components/Assemblies
- Multi-threading
- Data Access using ADO.NET
- Win Forms
- XML
- Windows Services
- Packaging and Deployment
- Debugging and Tracing

Basic of HTML and JavaScript

Introduction to ASP

- Basic of HTML and JavaScript
- Introduction to ASP
- Web Forms

- Using Web Controls
- Master pages and User Control
- Applying Themes and Styles to Controls
- ASP.NET State Management
- ASP Intrinsic Objects
- ASP.NET Web Application
- Data Access Controls
- Caching
- Configuration
- Trace Functionality
- Security
- Globalization and Localization
- AJAX.NET

Distributed Application Development

2) ASP.NET MVC Training Course Content

- Introduction to MVC
- First MVC Application
- The MVC Pattern
- Exploring Controller's
- Exploring Razor Views
- HTML Helpers
- Model Binders
- Annotations and Validations
- CRUD Operations using Entity Framework
- Caching in ASP.NET MVC
- Exception Handling in ASP.NET MVC
- Working with Areas
- Ajax and Client Scripting
- Security
- New Features of ASP.NET MVC 4.5
- Project Explanation

3) Web Services and WCF Course Content

Web Services and WCF Course Syllabus Overview

- Introduction to Windows communication Foundation
- Developing WCF Service Application and Client
- Endpoints in configuration file
- Channel Stacks & Bindings in WCF
- Understanding Service and Data Contracts
- Handling WCF Exceptions/Faults
- Message Exchange Patterns
- Transactions
- MSMQ
- WCF Security

4) WPF Course Content

Introduction

- What is WPF?
- Types of WPF Application (Windows Based and Browser Based)
- XAML – Extensible Application Markup Language.
- First WPF Application
- Goals , Benefits and drawbacks
- Content Models

Expression Blend

- What is Expression Blend
- Different tabs and windows available

Basic Controls, Content Controls, Layout Controls and Menu Controls

Properties

- Property basics
- Type Converters
- Property element Syntax
- Attached properties
- Property Inheritance

Pens and Brushes

Input

- Mouse Events
- Keyboard Input
- Routed Events

Data Binding

- Simple Data Binding
- Binding to List Data
- Data Source Providers
- Master Details Binding

Styles and Templates

- Inline Styles
- Named Styles
- Element typed Styles
- Triggers
- Logical and Visual trees
- Data Driven UI

Resources and Themes

Event Triggers and Animations

- Animation Fundamentals
- Timelines
- Key frame Animations
- Animation without storyboards

Transformations and Effects

- Commanding, Layout, Render Transformations
- Effects

Documents

- Fixed Documents

- Flow Documents

Navigation-Based Applications

- Page
- Hyperlink Navigation
- Navigation Service
- Frame

Three Dimensional Drawing

5) Silverlight Course Content

- Silverlight Introduction & tools
- Silverlight Concepts
- Silverlight User Interface controls
- Transformation and Animation
- Silverlight Controls, Resources, Styles, Templates, Graphics & Media
- UI Interaction using Mouse and Keyboard
- Data Binding
- Creating Custom Controls
- Silverlight Navigation Applications
- Working with WCF, ASMS and ADO.NET Services
- Integrating with the Browser (Client side programming)

6) LINQ Course Training:

C# Language Extensions in 3.5 (Prerequisite)

- Type Inference
- Object Initialize'r
- Anonymous Types
- Extension Methods
- Partial Method

LINQ Architecture & Providers

- Understanding the LINQ Framework

- LINQ Providers

LINQ to Objects

- IEnumerable and IQueryable interfaces
- System.Linq namespace
- Query Expressions
- Lambda Expression
- Using Custom Class Collection

LINQ to SQL

- Defining the Data Model classes
- Using Mapping attributes
- Using the Data Context class
- Defining Relationships using Associations
- Creating a customized Data Context class
- LINQ to SQL Designer (DBML File)
- Performing Add/Edit/Delete/View Operations
- Tracking changes to entities
- Submitting changes
- Concurrency error handling issues
- Join Query
- Validating Entities
- Transaction Handling
- Executing Stored Procedures

LINQ to XML

- Understanding the LINQ to XML Class hierarchy
- Create an XML document
- Loading existing XML document
- Querying XML using LINQ to XML
- Manipulating XML document using LINQ
 - Adding nodes
 - Modifying nodes
 - Deleting nodes

LINQ to Dataset

- Querying Datasets
- Querying typed Datasets
- Using LINQ over Dataset with Table Adapter

7) SharePoint 2010 training

SharePoint 2010 training Course Details

- General Introduction
- Introduction to SharePoint
- SharePoint Installation
- SharePoint Site Hierarchy
- Lists
- Predefined List
- Predefined Libraries
- Working With Document Library
- Pages and Web Parts
- Workflows
- Security – User Groups and Permissions
- Managing SharePoint Central Administration
- Understanding Service Applications
- Enterprise Content Management
- User Profile Service Administration
- Administering and configuring Search
- Backup and Restore
- Power Shell
- Claim Based Authentication
- Server Object Model
- CAML and LINQ
- Client Object Model
- Features
- Managing SharePoint Environment
- Event Receivers
- Programming Web Parts

- Sandboxed Solutions
- Business Connectivity Service
- Custom Workflows
- Business Intelligence
- SharePoint Reporting Services
- InfoPath
- SharePoint Designer
- Branding SharePoint Sites
- Designing Maintenance Strategy
- Upgrade Strategy

8) SQL Server 2012 Course Content

Overview of Database Concepts

Basic Database Concepts

- Concepts of Data, Metadata, Files
- Concepts of DBMS
- Database Models
- File Management Systems
- Relational Database Systems
- Procedural & Non procedural approaches
- Database Design
- E.F.Codd's Rules

Normalization

- First Normal Form
- Second Normal Form
- Third Normal Form

Introduction to SQL Server

- Features of SQL Server

- Different Editions of SQL Server
- Components of SQL Server
- Services of SQL Server
- Comparison of SQL Server with Oracle

Database Design

- Logical & Physical database design
- Relational database design
- Creating databases

Management Studio

- Basics of SQL
- Data types, expressions, operators
- Working with Queries & Clauses
- Creating Databases
- Creating Tables, Stored Procedures
- Working with Indexes & Views

Sub queries

- Nested sub queries
- Correlated sub queries
- Derived tables

Implementation of Data integrity

- Entity integrity
- Domain integrity
- Referential integrity
- Types of constraints

Data Definition Language (DDL)

- Creation of table
- Modifying the structure of a table
- Dropping a table
- Working with different options

Data Manipulation Language (DML)

- Inserting, updating & deleting operations
- Operators, Built-in functions, Grouping
- Working with multiple tables

Joins

- Introduction to Joins
- Inner join
- Outer join
- Cross joins
- Unions

Working with Indexes

- Introduction to indexes
- Creating, dropping indexes
- Complex indexes
- Clustered & non clustered indexes

Implementing Views

- Introduction & advantages of views
- Creating views
- Altering, dropping views

Data Control Language (DCL)

- Creating Users and Roles
- Granting & Revoking of Roles & Privileges

Transaction Control Language (TCL)

- Introduction
- Transactions process & types of transactions (Implicit, Explicit)
- Working with Locks and Types of locks

Transact-SQL (T-SQL)

- Introduction
- Data types

- Statements
- Batch Execution

Working with Cursors

- Creating Cursors
- Cursors vs. Select
- Types of cursors, locks on cursors
- Advantages of cursors

Implementing stored procedures

- Introduction to stored procedures
- Creating, executing, modifying, dropping sp's
- Executing extended sp's

Implementing User Defined Functions

- Introduction
- Creating, executing, altering, dropping UDF's
- Deterministic, non-deterministic functions
- Scalar, multi-statement, built-in functions

Implementing Triggers

- Introduction to Triggers
- Constraints vs Triggers
- Creating, altering, dropping triggers
- for/after/instead of triggers

9) Sharepoint 2013 training Course Content

- General Introduction
- Introduction to SharePoint
- SharePoint Installation and Administration
- SharePoint Site Hierarchy
- Introduction to Apps - Lists / Libraries
- Predefined List & Libraries
- RSS

- Security – User Groups and Permissions
- Claim Based Authentication
- Enterprise Content Management
- User Profile Service Administration
- Administering and configuring Search
- Power Shell
- Backup and Restore
- Server Object Model
- CAML and LINQ
- Client Object Model
- SharePoint Tools for Visual Studio 2012
- Features
- Visual Studio Templates
- Event Receivers
- Working with Web Parts
- InfoPath
- InfoPath External Data
- InfoPath Validation Formatting
- Business Connectivity Service
- Workflow
- SharePoint Designer

10) Struts and Ajax Course Training

Model-View-Controller (MVC) Architecture

Model 1 and Model 2 Approach in Web Applications

What is a Framework?

Introduction to Struts 2.0 Framework

Struts Framework Components

- Controller Components
- Model Components
- View Components

Struts 2.0 Configuring Elements

- Administrator Elements
 - Bean Configuration
 - Constant Configuration
 - Package Configuration
 - Namespace Configuration
 - Include Configuration
- Request Handling Elements
 - Interceptor Configuration
 - Action Configuration
 - Result Configuration
- Exception Handling
 - Exception Configuration

Struts 2.0 Configuring Files

- web.xml
- struts.xml
- struts.properties
- struts-default.xml

Interceptors

- Understanding Interceptors
- Configuring Interceptors
- Stacking Interceptors
- Writing Interceptors

Expression Language

- OGNL Introduction
- OGNL Language Features
- Working with Collections

Value Stack

- Temporary Objects
- Model Object
- Action Object
- Named Objects

UI Components

- Templates
- Themes
- Simple Tags
- Collection based Tags

Type Conversion

- Built in Type Conversion
- Creating a Type Converter
- Advanced Type Conversion

Validation

- Manually Validation
- Validation Framework
- Basic Validation
- Client Validation
- Field Validator
- Non Field Validation

Localization / Internationalization

- UI Tags
- Validation Aware Interface
- Action Support get Text Method

- Resource Bundle

AJAX

- Introduction AJAX
- AJAX Internals
- XML Http Request Object
- AJAX UI Tags
- Div Tag
- Submit Tag
- Anchor Tag
- Tabbed Panel Tag
- Auto Completer Tag

GREENS TECHNOLOGYS



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