

# Bridge

Training Program

## .net Training Plan

# Class Pre-requisites

Attendees should have basic knowledge of:

- HTML/ JavaScript
- Object Oriented Programming
- Relational DBMS / SQL Programming

# 6 Weeks Training Program

(Divided in 15 sessions each of 2 hrs lecture duration coupled with 4 hours/day practical lab time for whole 6 weeks)

Day	Topic
1	<b>Introduction to .net</b> A. Introduction to the .net Framework B. Overview of ASP.net
2	<b>Concepts of OOPS</b> <b>Basics of C#</b>
3	<b>Database Concepts</b> A. RDBMS B. Database Programming (SP, Functions, Triggers) C. Lab
4	<b>Creating Web Applications by Using Microsoft Visual Studio 2010 and C#</b> A. Overview of Visual Studio 2010 B. Creating a Simple Web Application C. Lab: <i>i) Creating Web Forms</i> <i>ii) Adding and Configuring Server Controls in Web Forms</i> <i>iii) Building and Deploying an ASP.net Web Application</i>

<b>5</b>	<b>Adding Functionality to a Microsoft ASP.net Web Form</b> A. Working with Code-Behind Files B. Handling Server Control Events C. Creating Classes and Components by Using Visual Studio 2008 SP1 D. Handling Page Events E. Lab: <i>i) Implementing Code in a Web Application</i> <i>ii) Creating Event Procedures</i> <i>iii) Creating an Entity Component</i> <i>iv) Handling Page and Control Events</i>
<b>6</b>	<b>Implementing Master Pages and User Controls</b> A. Creating Master Pages B. Adding User Controls to an ASP.net Web Form C. Lab: <i>i) Adding and Applying a Master Page</i> <i>ii) Converting Web Forms to Content Pages and User Controls</i>
<b>7</b>	<b>Validating User Input</b> A. Overview of User Input Validation B. ASP.net Validation Controls C. Validating Web Forms D. Lab: <i>i) Adding Validation Controls</i> <i>ii) Configuring Validation Controls</i> <i>iii) Adding Server-Side Validation</i>
<b>8</b>	<b>Debugging Microsoft ASP.net Web Applications</b> A. Debugging in ASP.net B. Tracing in ASP.net C. Lab: <i>i) Debugging a Web Application</i> <i>ii) Tracing a Web Application</i>

<b>9</b>	<b>Managing Data in an ASP.net 3.5 Web Application</b> A. Overview of ADO.net B. Connecting to a Database C. Managing Data D. Lab: <i>i) Connecting to a Data Source</i> <i>ii) Binding a Server Control to a Data Source</i> <i>iii) Modifying a Data Source</i>
<b>10</b>	<b>Creating a Microsoft ASP.net AJAX Application</b> A. Introduction to ASP.net AJAX B. Creating an ASP.net AJAX Application by Using the ASP.net AJAX Extensions C. Extending an Application by Using the ASP.net AJAX Control Toolkit D. Lab: <i>i) Creating a Modal About Box</i> <i>ii) Customizing Dynamic Data Field Templates with AJAX Controls</i>
<b>11</b>	<b>Consuming XML Web Services and Windows Communication Foundation Services</b> A. Overview of XML Web Services B. Locating XML Web Services C. Calling XML Web Services D. Consuming Windows Communication Foundation Services E. Lab: <i>i) Discovering an XML Web Service</i> <i>ii) Creating a Web Reference Proxy</i> <i>iii) Calling a Web Service Method from a Web Form</i>
<b>12</b>	<b>Managing State in Web Applications</b> A. State Management B. ASP.net Profiles C. ASP.net Caching D. Lab: <i>i) Examining the View State</i> <i>ii) Caching</i> <i>iii) Displaying Visitors Counter on Default Page</i>

13	<p><b>Configuring and Deploying a Microsoft ASP.net Web Application</b></p> <p>A. Configuring an ASP.net Web Application  B. Deploying an ASP.net Web Application  C. Lab</p>
14	<p><b>Securing a Microsoft ASP.net Web Application</b></p> <p>A. Web Application Security Overview  B. Declaratively Configuring Authentication and Authorization  C. Working Programmatically with Authentication and Authorization  D. Lab:</p> <p><i>i) Enabling Forms Authentication</i>  <i>ii) Implementing Authorization</i>  <i>iii) Protecting the Configuration File</i></p>
15	<p><b>Implementing New Technologies Supported by Visual Studio 2008 for Web Dev</b></p> <p>A. Working with ADO.net Data Services  B. Working with ASP.net MVC  C. Lab:</p> <p><i>i) Implementing ADO.net Data Services</i></p>

## On completion of this training, you will:

- Learn to explore ASP.net web applications in Microsoft Visual Studio 2008 SP1
- Learn to create ASP.net web applications by using Microsoft Visual Studio 2008 SP1 and Microsoft .net based languages
- Learn to create a Microsoft ASP.net Web Form
- Learn to add functionality to a Microsoft ASP.net Web Form
- Learn to implement master pages and user controls in Microsoft Visual Studio 2008 SP1
- Learn to validate user input
- Learn to debug Microsoft ASP.net web applications
- Learn to manage data in an ASP.net 3.5 web application
- Learn to manage data by using ASP.net Dynamic Data
- Learn to create a Microsoft ASP.net AJAX application
- Learn to consume XML web services and Windows Communication Foundation (WCF) services
- Learn to manage state in Web applications
- Learn to configure and deploy a Microsoft ASP.net web application
- Learn to secure a Microsoft ASP.net web application
- Learn to implement new technologies supported by Visual Studio 2008 SP1 for ASP .net web development

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