

**MCAD/MCSD Developing and Implementing Web Applications with Visual C# .NET and Visual Studio .NET  
(Exam 70-315) Training Guide**

**Copyright © 2003 by Que Publishing**

International Standard Book Number: 0789728222

**Warning and Disclaimer**

Every effort has been made to make this book as complete and as accurate as possible, but no warranty or fitness is implied. The information provided is on an "as is" basis. The author and the publisher shall have neither liability nor responsibility to any person or entity with respect to any loss or damages arising from the information contained in this book or from the use of the CD or programs accompanying it.

When reviewing corrections, always check the print number of your book. Corrections are made to printed books with each subsequent printing. To determine the print number of your book, view the copyright page. The print number is the right-most number on the line below the "First Printing" line. For example, the following indicates that this is the 1<sup>st</sup> printing of this title and it was printed in May 2003.

*First Printing: May 2003*

06 05 04 03      4 3 2 1

#### Fourth Printing Corrections

Pg	Error	Correction
41	Line 22 of the code: : {1:f} </td><tr> ", f, ToCelsius (f));	: {1:f} </td></tr> ", f, ToCelsius (f));
72	Fifth to last line of code: : {1:f} </td><tr> ", f, ToCelsius (f));	: {1:f} </td></tr> ", f, ToCelsius (f));
72	After last line of code:	Add:  Access the Properties window for the TemperatureCB.CS file and change its Build Action property to None.
74	Step 2, code line: csc /t:library /out:bin\315C01.dll TemperatureCB.cx	csc /t:library /out:bin\TemperatureCB.dll TemperatureCB.cx
77	Step 5, fifth line of code: <TD>&deg Celcius</TD>	<TD>&deg <b>Celsius</b> </TD>
78	Eight line of code: " {1:f} </td><tr> ", f, ToCelsius(f));	" {1:f} </td></tr> ", f, ToCelsius(f));
95	No. 9, both instances of: <%...%>	<%=...%>
114	Add to end of Step 1:	Change the id attribute of the HTML <form> element to StepByStep2_3.

124	Table 2.5, ImageAlign property, fourth line of description:  AbsMiddle, Baseline, Botton, Left, Middle, NotSet	AbsMiddle, Baseline, <b>Bottom</b> , Left, Middle, NotSet
133	Add to the end of Step 1:	Change the id attribute of the HTML <form> element to StepByStep2_5.
140	Step 4, after second sentence add:	Select the CheckBoxList control, and, using the Properties window, select the Items property and click the ellipses button (...) to open the ListItem Collection Editor. Add the six checkbox items as shown in Figure 2.18. Repeat this procedure for the RadioButtonList control, adding the six radio buttons as shown in Figure 2.18.
149	Step 3, second sentence:  Place two TextBox controls and set their ID properties to txtRows and txtColumns, respectively.	Place two TextBox controls and set their ID properties to <b>txtRow</b> and <b>txtCell</b> , respectively.
170	Step 2, third sentence:  Create a table of two rows...	Create a table of <b>three</b> rows...
170	Step 2, last sentence:  Place a Label control and a Button...	Place a Label control ( <b>lblMessage</b> ) and a Button...
177	Step 5, first line of code:  private void cuvTickets_ServerValidate(object source,	private void <b>cuvPalindrome</b> _ServerValidate(object source,
184	Add to the end of Step 1:	Click on the Web Form, access its Property window, and change the PageLayout property of the DOCUMENT element from GridLayout to FlowLayout.

184	Step 3, last sentence:  Right-click the body element in the outline window and select Build Style from the shortcut menu.	Right-click the body element in the outline window and select Build Style from the shortcut menu ( <b>see Figure 2.36</b> ). <b>Modify the values in the Style Builder dialog box as shown in Figure 2.37.</b>
184	Delete Step 4	
192	No. 4, first line of code:  private void ibDice_Click(object sender,	private void <b>ibLocate_Click</b> (object sender,
195	No. 2, third sentence:  Create a table of two rows and two columns...	Create a table of <b>four</b> rows and two columns...
195	Add the following new Step 3, and renumber the current Step 3-8 to 4-9:	3. Set the TextMode property for all the three password text boxes to Password.
204	No. 13, first line:  13. C. The RequiredFieldValidator control is the	13. C. The <b>RegularExpressionValidator</b> control is the
217	Third line of code at top of page:  <pages SmartNavigation="true"/>	<pages <b>smartNavigation</b> ="true"/>
220	Step 3, add second line of code:	Using System.Collections.Specialized;
239	Add to the end of Step 1:	Add a label control (lblName) to the form.
242	Add to the end of Step 2:	Right-click on the txtPosts control and set it to run as a server control. Set the value property of the txtPosts control to 0.

253	Add to the end of Step 1:	Add a label control (lblName) to the Web form.
257	Add to the end of Step 1:	Add a label control (lblInfo) to the Web form.
260	Fourth paragraph, first two sentences:  The default use of the Server.Transfer() method does not pass the form data and the query string of the original page request to the page receiving the transfer. However, you can preserve the form data and query string of the original page by passing a true value to the optional second argument, of the Server.Transfer() method.	The default use of the Server.Transfer() method <b>passes</b> the form data and the query string of the original page request to the page receiving the transfer. However, you can <b>clear</b> the form data and query string of the original page by passing a <b>false</b> value to the optional second argument.
262-264	Add the following new Step 3 and renumber the original Steps 3-9 as 4-11:	Add the following using directive to the form's code:  using System.IO;
272	No. 6:  Drag two Label controls, two TextBox controls (txtName and txtAddress), and a Button control (btnCode) to the Web form (see Figure 3.19).	Drag <b>three</b> Label controls ( <b>name the first as lblCode</b> ), two TextBox controls (txtName and txtAddress), and a Button control ( <b>btnFinish</b> ) to the Web form (see Figure 3.19).
279	No. 14, second sentence:  You need to set the EnableViewState attribute...	You need to set the EnableViewState <b>Mac</b> attribute...
303	No. 4, eighth line of code:  String[] line = txtText.Text.Split();	String[] line = txtText.Text.Split('\n');

314	Delete Step 2 and replace with:	<p>Add the following using directive to your code:</p> <pre>using System.Diagnostics;</pre> <p>Add the following code to the Application_Error() event handler:</p> <pre>protected void Application_Error     (Object sender, EventArgs e) {     // Get the Exception object wrapped in the     // InnerException property     Exception unhandledException =         (Exception)Server.GetLastError().InnerException;     // Create an EventLog instance and assign its source.     EventLog eventLog = new EventLog("Application");     eventLog.Source = "Application";      // Write an informational entry to the event log.     eventLog.WriteEntry(unhandledException.Message +         unhandledException.StackTrace);     Response.Write("An exception occurred: " +         "Check Application event log for details");     Server.ClearError(); }</pre>
318	Add to the end of Step 7:	Make sure that you modify Web.Config file to set the mode attribute of the <customErrors> element to "on".
381	Add this line of code before the next-to-last } and align it with the line before it:	ddlOrders_SelectedIndexChanged(sender, e);

393	Step 11, first sentence:  Attach event handlers for CancelCommand, EditCommand, UpdateCommand, and DeleteCommand events of the ...	Attach event handlers for CancelCommand, EditCommand, and UpdateCommand events of the ...
400	No. 3, add these to lines of code to the beginning of the code block:	using System.Date;  using System.Collections;
400	No. 4, add this line of code before the next-to-last } and align it with the line before it:	txtRAM.DateBind();
400	No. 5, second-to-last line of code:  txtOrderID.DataBind();	TxtRAM.DataBind();
403	No. 2, replace second sentence with:	For dlEmployees control, set its CellSpacing property to 10, RepeatColumns property to 2, and the SelectedIndex property to 0.
406	No. 4, first sentence:  Your application includes a database table that contains a list of course numbers and course names.	Your application <b>database includes a number of tables. One of these tables is named Courses, and it contains a list of course numbers and course names.</b>
409	No. 10, first line of code:  asp:Button id="btnEdit" runat=	<asp:Button id="btnEdit" runat=

437	Last section of code on the page (four lines) should be replaced with:	<pre>UPDATE Products SET Products.Discontinued = 1 FROM Products, Suppliers WHERE Suppliers.SupplierID = Products.SupplierID AND Suppliers.Country = 'Italy'</pre>
441	Step 6, first line of code:  private void StepByStep6_6_Load(object sender,	private void <b>Page_Load</b> (object sender,
505	Sixth line of code:  dr[0] = txtCustomerID.Text;	dr[0] = txtCustomerID.Text.Trim();
506- 507	Replace final eight lines of code on Page 506 and four lines of code on Page 507 with:	<pre>lblResults.Text = "Cannot find a row for this customer"; // Find the specified row and delete it foreach( DataRow dr in ds.Tables["Customers"].Rows) {     if(dr[0].ToString().Trim() == txtCustomerID.Text.Trim())     {         dr.Delete();         lblResults.Text = "Row deleted!";         break;     } } // Save the changes da.Update(ds, "Customers");</pre>
510	Add these lines of code after second line of code:	<pre>ds = new DataSet();           //newlyadded da.Fill(ds, "Customers"); //newlyadded</pre>
518	Table 6.15:  PreviousSibling() Method Specifies the previous child node of this node's parents	<b>PreviousSibling Property</b> Specifies the previous child node of this node's parents

520	Add this line of code to top of page:	using SystemIO;
520- 521	Replace final eight lines on Page 520 and remaining code on page 521 with:	<pre>private void AddWithChildren(XmlNode xnod, Int32 intLevel) {     // Adds a node to the ListBox, together with its children.     // intLevel controls the depth of indenting     XmlNode xnodWorking;     string strIndent = "";     for (int i=0; i&lt; 2*intLevel; i++)         strIndent += "&amp;nbsp;";      // Get the value of the node (if any)     String strValue= (String) xnod.Value;     if(strValue != null)         strValue = "&amp;nbsp;:&amp;nbsp;" + strValue;      // Add the node details to the ListBox     string str = strIndent + xnod.Name + strValue;     StringWriter writer = new StringWriter();     Server.HtmlDecode(str, writer);     lbNodes.Items.Add(writer.ToString());      // For an element node, retrieve the attributes     if(xnod.NodeType == XmlNodeType.Element)     {         XmlNamedNodeMap mapAttributes= xnod.Attributes;         // Add the attributes to the ListBox         foreach(XmlNode xnodAttribute in mapAttributes)         {             str = strIndent + "&amp;nbsp;&amp;nbsp;" +                 xnodAttribute.Name + "&amp;nbsp;:&amp;nbsp;" +                 xnodAttribute.Value;             writer = new StringWriter();             Server.HtmlDecode(str, writer);             lbNodes.Items.Add(writer.ToString());         }         // If there are any child nodes, call this procedure recursively         if(xnod.HasChildNodes)</pre>

		<pre> {     xnodWorking = xnod.FirstChild;     while (xnodWorking != null)     {         AddWithChildren(xnodWorking, intLevel + 1);         xnodWorking = xnodWorking.NextSibling;     } } } </pre>
532	<p>Fourth-from-last and 12th-from last lines of code, change both instances of:</p> <p>MessageBox.Show</p>	<p>With:</p> <p>lbErrors.Items.Add</p>
538	<p>No. 7:</p> <p>Delete the following lines of code:</p> <p>cnn.Open();</p> <p>cnn.Close();</p>	
539	<p>No. 8, delete block of code and replace with:</p>	<pre> private void btnLoad_Click(object sender, System.EventArgs e) {     // Create a new DataSet     DataSet ds = new DataSet();      // Load the orders for this customer     SqlCommand cmdOrders = cnn.CreateCommand();     cmdOrders.CommandType = CommandType.StoredProcedure;     cmdOrders.CommandText = "procOrdersForCustomer";     cmdOrders.Parameters.Add         (new SqlParameter("@CustomerID", SqlDbType.Text, 5));     cmdOrders.Parameters["@CustomerID"].Value=         ddlCustomers.SelectedItem.Value;     SqlDataAdapter daOrders = new SqlDataAdapter(); </pre>

		<pre> daOrders.SelectCommand = cmdOrders; daOrders.Fill(ds, "Orders");  // Bind the data to the user interface dgMain.DataSource = ds; dgMain.DataMember = "Orders"; dgMain.DataBind(); } </pre>
566	Step 4, add this line of code to beginning of code block:	<pre> using StepByStep7_1; </pre>
569	Step 5, first line of code:  private void btnGo_Click(	<pre> private void btnSearch_Click( </pre>
579	Fourth paragraph, replace last sentence with:	<p>This method first checks the current value of the ChildControlsCreated property. If this value is false, the CreateChildControls() method is called.</p>
583	Replace third-from-last line of code through 17th-to-last line of code on page-- begins with protected override void Render(	<pre> With: protected override void Render(HtmlTextWriter output) {     //Preserve grid positioning information     System.Collections.IEnumerator enumerator =         this.Style.Keys.GetEnumerator();     while(enumerator.MoveNext())         output.AddStyleAttribute((string)enumerator.Current,             this.Style[(string)enumerator.Current]);     //Render the control     output.RenderBeginTag(HtmlTextWriterTag.Div);     if (bold)     {         output.RenderBeginTag(HtmlTextWriterTag.B);         output.Write(Text);         output.RenderEndTag();     } } </pre>

		<pre> else {     output.Write(Text); } output.RenderEndTag(); } </pre>
595	After second paragraph, add Step 10:	<p><b>10.</b> In the Server Explorer window, right-click on the node for Solution 315C07, and select Properties from the shortcut menu. In the Solution '315C07' Property Pages dialog box, select Configuration Properties, Configuration node, and uncheck the Build property for the project StepByStep7_10.</p>
628	Note, URL:  www.house747.freemove.co.uk/atcodes.htm	<a href="http://www.google.com/search?q=ICA0+codes">http://www.google.com/search?q=ICA0+codes</a>
629	Replace Step 5	<p>With:</p> <p>Add a new Web form (StepByStep8_1.aspx) to the project and delete the default WebForm1.aspx form.</p>
632	Add to the end of Step 3:	Modify the name of the constructor from Service1 to Strings.
636	No. 3, second sentence:  Change the name of the class to Customer and enter this code at the top of the file:	Change the name of the class to Customer <b>and change all reference of Service1 to Customer.</b> Enter this code at the top of the file:
638	No. 13:  Set the Web form as the start page for the project.	Set the Web <b>Project</b> as the starting project <b>of the solution.</b>

642	Add to the end of Step 5:	Select Project, Add Reference to add a reference to the System.Web.Services.dll library in your project.
666	Add this line of code right before the second-to-last line and align the new line with line before it:	DdlSelectCulture_SelectedIndexChanged(sender, e);
669	Step 2, first sentence:  Place a Lable control with the ID of lblFolder, three RadioButton controls (rbMyDocuments, rbDesktop, and rbNewFolder), a DropDownList control with the ID of...	Place a Lable control with the ID of lblFolder, three RadioButton controls: rbMyDocuments, rbDesktop, and rbNewFolder ( <b>set the GroupName property for these RadioButton controls to grpDestination</b> ), a DropDownList control with the ID of...
690	No. 8, choices A and B, third word in each:  Unicode.GetBytes()  Unicode.GetChars()	UnicodeEncoding.GetBytes()  UnicodeEncoding.GetChars()
703	Fourth line of code:  StrConn =	StrConn = _
744	End of Step 2, delete third-to-last line of code (</form>)	
788	Second paragraph, third sentence:  On the other hand, when a program is compiled using the Trace configuration...	On the other hand, when a program is compiled using the <b>Release</b> configuration...

791	<p>Step 9, fourth sentence:</p> <p>Enter the value <b>5</b> and click the Calculate button; you should find that factorial has been calculated, but there are no trace messages...</p>	<p>Enter the value <b>5</b> and click the Calculate button; you should find that factorial has been calculated, but there are no <b>debug</b> messages...</p>
804	<p>No. 4, first sentence:</p> <p>Run the project and enter a value for which to find the factorial.</p>	<p>Run the project <b>by using the DEBUG configuration</b> and enter a value for which to find the factorial.</p>
830	<p>No. 6, first sentence:</p> <p>Place a Button control (btnGetProducts) and a DataGrid control (dataGrid1) on the form.</p>	<p>Place a Button control (btnGetProducts) and a DataGrid control (<b>dgProducts</b>) on the form.</p>
830	<p>No. 7, add this line of code right before the last line and align the new line with line before it:</p>	<p><code>dgProducts.DataBind();</code></p>
880	<p>First sentence of first paragraph and first sentence of fourth paragraph:</p> <p>Step By Step 13.10 should be 13.9</p>	
889	<p>Replace Step 4 with:</p>	<p>Activate the Visual Studio .NET Toolbox, right-click the toolbox, and select Add/Remove Items. Click on the .NET Framework Components tab, and select RandomNumberGenerator.dll.</p>
952	<p>13th line of code:</p> <p>"Selected EventLog does not Exists";</p>	<p>"Selected EventLog does not <b>Exist</b>";</p>

962	Step 3, add this line of code to beginning of code block:	<code>using System.Diagnostics;</code>
991	Step 4, second line of code:  <code>&lt;error statusCode="404" redirect="404.aspx" /&gt;</code>	<code>&lt;error statusCode="404" redirect="Custom404.aspx" /&gt;</code>
991	Last line on page:  <code>404.aspx</code> in response to 404 (page note found) errors.	<code>Custom404.aspx</code> in response to 404 (page note found) errors.
992	Step 5, second sentence:  Name the new form <code>404.aspx</code> .	Name the new form <code>Custom404.aspx</code> .
1018	Step 5, first sentence:  Switch to code view.	Switch to code view <b>and add the following using directive:</b>  <code>using System.Data.SqlClient;</code>
1022	No. 5, first sentence:  Switch to code view.	Switch to code view <b>and add the following using directive:</b>  <code>using System.Data.SqlClient;</code>
1026	Step 2, first sentence:  Place two Label controls (one named <code>lblGenerateTime</code> ), a <code>DropDownList</code> ...	Place two Label controls ( <code>lblGenerateTime</code> <b>and</b> <code>lblMessage</code> ), a <code>DropDownList</code> ...
1026	Step 4, first sentence:  Switch to code view.	Switch to code view <b>and add the following using directive:</b>  <code>using System.Data.SqlClient;</code>

1033	No. 2, second line of code:  Mode="SqlServer"	Mode="SQLServer"
1114	First column, replace first paragraph after bullets with:	You may also count as elective one of the four core exams 70-305, 70-306, 70-315, and 70-316. The elective exam must be from the opposite technology as the exam that you counted as core. For example, if you take the exam "Developing and Implementing Web Applications With Visual C# .NET and Visual Studio .NET" (Exam 70-315) as a core exam, you can take either the "Developing and Implementing Windows-based Applications With Visual C# .NET and Visual Studio .NET" (Exam 70-316) or the "Developing and Implementing Windows-based Applications With Visual Basic .NET and Visual Studio .NET" (Exam 70-306) as an elective.

This errata sheet is intended to provide updated technical information. Spelling and grammar misprints are updated during the reprint process, but are not listed on this errata sheet.