



.NET Certified Developer Certificate – 14 Weeks

<p>➤ Database Theory</p> <ul style="list-style-type: none">◆ Data Modeling Techniques, Entity - Relation Model◆ Relational Database Analysis and Design	<p>1 Week</p>
<p>➤ SQL Language</p> <ul style="list-style-type: none">◆ DML: Select, Insert, Delete, Update, Where Clause, Conditions, Joins◆ Sub-Queries, Functions, Group by Clause, Having Clause◆ DDL: Creating Objects: Tables, Views, Sequences, Indexes, Users, etc.◆ Altering Data Structures, Defining Constraints, Database Privileges Control, Commit, Rollback	<p>1 Week</p>
<p>➤ VB.NET Windows Application Development</p> <ul style="list-style-type: none">◆ .NET Framework, Visual Studio.NET Development Environment◆ VB.NET Fundamentals: Variables, Data Types, Conditions, Loops◆ Creating Windows Forms, Controls, Menus with VB.NET Code◆ MDI Applications, Dialog Boxes, Create Licenses for Controls◆ Validating User Input in a Windows Forms Application◆ Binding Windows Forms Applications to Data sources by using ADO.NET◆ Consume XML Web Services, Using .NET and COM Components◆ Call Microsoft Win32 APIs, Migrating VB 6.0 Applications to VB.NET◆ Printing Documents, Asynchronous Calls, Debugging◆ Incorporating Accessibility Features, Localizing Windows Forms Apps◆ Help Systems, Deploying a Windows Forms Application◆ Implement Code Access and Role-based Security	<p>5 Weeks</p> <p><i>Microsoft Official Curriculum Course # 2565</i></p>  <p>MS Exam 70-306: <i>Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio® .NET</i></p>
<p>➤ ADO.NET and SQL Server</p> <ul style="list-style-type: none">◆ ADO.NET architecture, XML, Describing Data-centric Applications◆ Connecting to SQL Server & Executing Database Operations◆ Building a DataSet Schema, Populating and Modifying Data◆ Using XML Techniques while working with DataSets, including Mapping Tables and Columns, creating XSD Schemas, Building Strongly Typed DataSets, and Interacting with XMLDataDocuments◆ Building a Web Service that Uses ADO.NET to Query and Update data◆ Troubleshoot errors within an ADO.NET application	<p>2 Weeks</p> <p><i>Microsoft Official Curriculum Course # 2389</i></p> 

➤ **ASP.NET Web Application Development**

- ◆ Microsoft .NET Framework and ASP.NET, Visual Studio .NET
- ◆ Server controls in an ASP.NET Web Form, Creating Web Forms
- ◆ Using Trace and Debug Objects in Visual Studio .NET
- ◆ Using Validation Controls to Validate User Input, Creating a User Control
- ◆ Built-in Data Access Tools in Visual Studio .NET, ADO.NET in ASP.NET
- ◆ XML data and DataSets, Calling an XML Web Service from ASP.NET
- ◆ Storing Application and Session Data by Using a Variety of Methods
- ◆ Configuring, Deploying an ASP.NET Web Application
- ◆ Securing an ASP.NET Web Application

➤ **XML Web Services & Enterprise Development**

- ◆ XML Web Services Solutions to Problems with Older Distributed Apps
- ◆ Architecture of an XML Web Services-based Solution & Technologies
- ◆ Implementing an XML Web Service Consumer and Service with Visual Studio .NET, Publishing and Deploying an XML Web Service
- ◆ Securing an XML Web Service, Caching, Aggregating XML Web Services
- ◆ Configuring an Assembly as a COM+ Application and creating Components
- ◆ Data Access Components, Transactional Components

3 Weeks

**Microsoft Official
Curriculum Course
2310**



MS Exam 70-305:
*Developing & Implementing
Web Applications with
Microsoft VB .NET and Visual
Studio® .NET*

2 Weeks

**Microsoft Official
Curriculum Course
2524**



MS Exam 70-310:
*Developing XML Web Services
and Server Components with
Microsoft Visual Basic .NET
and the Microsoft .NET
Framework*