



C#.net Syllabus

Overview

Microsoft .NET is an advance in programming technology that greatly simplifies application development, both for traditional, proprietary applications and for the emerging paradigm of Web-based services. .NET is a complete restructuring of Microsoft's whole system infrastructure and represents a major learning challenge for programmers developing applications on Microsoft platforms. Part of .NET is a major new object-oriented programming language, C#. But learning the new programming language is only part of the challenge. The much greater challenge is learning the .NET Framework and all its capabilities.

This course is designed for the beginner programmer to help you quickly come up to speed on the C# language. It is current to Visual Studio and .NET, which introduces important new features such as implicit typing, extension methods, lambda expressions and Language-Integrated Query (LINQ). The new features are covered in a new chapter.

This course concisely covers the essentials of programming using Microsoft's new C# programming language. It starts with a brief chapter, ".NET: What You Need to Know," which gets you up and running in the .NET environment with a minimum of fuss. The next two chapters cover C# language essentials and object-oriented programming in C#. The following chapter covers delegates and events. The course concludes with a chapter covering the new features in C#.

Course Goals

- Acquire a working knowledge of C# programming
 - Learn about important interactions between C# and the .NET Framework
 - Gain a working knowledge of implicit typing, object initializers, anonymous types, extension methods, lambda expression, LINQ, and other new features in C#
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- ✓ Introduction of .Net Technology
 - ✓ .Net Architecture
 - ✓ Core C#.net.
 - ✓ Object Oriented Programming using C#

- ✓ Array and Tuples
- ✓ Casting
- ✓ Generics
- ✓ Delegates
- ✓ Events
- ✓ Strings
- ✓ Regular Expression.
- ✓ Collections
- ✓ Language Integrated Query (Linq)
 - Linq to Object
 - Linq to SQL
 - Linq to XML
- ✓ Lambda
- ✓ Dynamic Language Runtime
- ✓ Reflection & Attributes
- ✓ Error and Exception
- ✓ Garbage Collection
- ✓ Threading
- ✓ Asynchronous Programming
- ✓ Manipulating Files & Registry
- ✓ Diagnostics
- ✓ ADO.net Entity Framework
- ✓ Window Service
- ✓ Web Service
- ✓ WCF
- ✓ Crystal Report Introduction
- ✓ Deployment.