Programming C# 6, Part 01 of 12: Getting started

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Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This is an entry level course. Some amount of programming experience will be helpful and speed up your learning but you can jump right into this course at any level.

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Course description: C# and the .NET Framework provide a complex set of tools and technologies for building software applications on multiple platforms. This course covers the basics of what .NET is—along with a bit of history, and where Visual Studio and C# fit into it. Don will explore a simple .NET application so that you can begin to see the structure of both C# code and .NET projects. Then he'll delve into the C# language and why it is such a compelling tool for application development.

Course outline:

Getting Started with .NET
- Introduction
- What Is .NET?
- History of .NET
- Why .NET?
- Advantages of .NET
- Summary

.NET Architecture
- Introduction
- .NET Architecture
- Common Language Runtime (CLR)
- Compiling a .NET Application
- Framework Base Class Library
- A Few Common Namespaces
- .NET Languages
- .NET Application: Assemblies
- What Programs Can You Create?
- Summary

Building a .NET Application
- Introduction
- Demo: Visual Studio Command Prompt
- Demo: Basic .NET Application
- Demo: .NET Application Concepts
- Demo: Method Contents
- Demo: Using Statements
- Summary

Intermediate Language
- Introduction
- Microsoft Intermediate Language
- Demo: Intermediate Language
- Summary

C# Language
- Introduction
- What Is C#?
- History of C#
- Demo: Wikipedia
- Why Should You Use C#?
- Standard C#
- Summary