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PHOENIX TS

C# Programming Training

This training is designed for experienced programmers who want to enter .NET programming.

Course Overview

Our 5-day, instructor-led C# Programming Training course teaches students NET programming, using the C# programming language and the Visual C#.NET integrated development environment inside Visual Studio.NET. Participants will be able to do the following upon completion of this course:

- Build and run simple C#-based programs.
- Define and use classes in C#.
- Define and use methods in C#.
- Program GUI Windows applications with forms and controls.
- Write statements that control program flow.
- Identify and use reference and value types in C#.
- Program with built-in and user-defined exceptions.
- Identify and use reference and value types in C#.
- Define and use arrays and collections.
- Expose and access properties and indexers.
- Build and deploy local and shared assemblies.
- Write code that interoperates with legacy Windows code.

Course Outline

Creating Simple C# Programs

- Create a simple C# console application
- Use a namespace
- Comment code
- Create a simple class library
- Test a simple class library
- Create a simple C# Windows GUI application

Working with Classes

- Define and use a class
- Use access modifiers
- Define namespaces
- Declare an abstract class
- Derive a concrete class from an abstract class
- Use an abstract class and its concrete derived class

Working with Methods

- Implement constructors
- Implement a destructor
- Override a method
- Overload a method
- Overload an operator
- Pass parameters

Programming with Forms and Controls

- Create a graphical program using standard built-in controls
- Create a custom control
- Use custom controls on a form

Writing Statements that Control Program Flow

- Write conditional statements
- Write loop statements
- Write jump Statements

Using Types in C#

- Use pre-defined data types
- Differentiate between reference and value types
- Use casting
- Define and use a struct type
- Define and use an enum type

Programming with Exceptions

- Catch exceptions
- Define custom exceptions
- Throw exceptions
- Utilize the finally keyword

Working with Interfaces

- Define an interface
- Implement interfaces in derived classes
- Invoke interface methods

Working with Arrays and Collections

- Define a rectangular or higher-dimensional array
- Use a rectangular array
- Define a jagged array
- Use a jagged array
- Choose and/or create a collection type
- Use a collection type

Working with Properties and Indexers

- Expose properties
- Expose indexers

Building and Deploying Assemblies

- Create an Assembly with the C# command line compiler
- Use ildasm
- Deploy an assembly locally
- Create and deploy a shared assembly

Interoperating with Legacy Code

- Write code that interoperates with Win32

- Expose legacy COM components to C# clients
- Expose C# components to legacy COM clients

C# Programming Training FAQs

Who should take this class?

Professionals who benefit from C# programming skills or individuals looking to begin a programming career.

Starting at **\$3,500**

ATTENTION

For GSA pricing or Contractor quotes call
[240.667.7757](tel:240.667.7757)



Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

This **C# Programming Training** course includes:

- [# Days] instructor-led training
- [Course Name] book

- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*

**denotes this benefit is only available at participating locations*