

## C# Course Outlines

### Course Duration: 3 Days

Course Price: £975 Per Person | One to One £1075

Onsite Price from: £1755 for 2 Delegates | Additional Delegates £100 Per Person, Per Day

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#### Getting Started with C#

- ... C# and Object Orientated Programming
- ... Introduction to the .NET Framework
- ... The Common Language Runtime (CLR)
- ... The Common Type System

#### Navigating Visual Studio

- ... IDE Interface
- ... Code Files, Projects & Solutions
- ... Solution Explorer
- ... Properties Windows
- ... Toolbox

#### C# Fundamentals

- ... Creating your First C# Application
- ... Inside a C# Application
- ... Compiling your Application
- ... C# Language Basics

#### Variables and Data Types

- ... Understanding Types
- ... Declaring Variables
- ... Variable Naming Conventions
- ... Initialising Variables
- ... Type Casting

#### Operators

- ... Assignment Operator
- ... Arithmetic Operators
- ... Logical Operators
- ... Comparison Operators

#### Program Flow

- ... Writing Conditional If Statements
- ... Using the Switch Statement
- ... Jump Statements

#### Reference Types

- ... Working with Arrays
- ... Working with Strings
- ... Working with Lists

#### Looping Code

- ... For Loop
- ... Foreach Loop
- ... While Loop
- ... Do While Loop

#### Object Orientated Programming

- ... Declaring Classes
- ... Instantiating Objects
- ... Declaring Methods
- ... Method Overloading
- ... Method Constructors
- ... Using Access Modifiers

## **File Management**

- ... Using the File Class
- ... Reading and Writing Files
- ... Working with Existing Files
- ... Working with Directory Information
- ... Introducing Streams

## **Exceptions**

- ... Understanding Exceptions
- ... Exception Classes
- ... Handling Exceptions

## **Debugging**

- ... Adding Breakpoints
- ... Stepping through Code
- ... Debugging Tools Windows

TECHNICAL IT TRAINING