

## Programming in C#

 Duration: 5 Days

 Available Languages: English

### Audience

Software Developers.

### Precondition

Knowledge of programming in general.

### Goals

Write programs in C#.

### Contents

- Overview of C# Language
- Setup
- Basic Elements of C#
  - Variables
  - Data Types
  - Operators
  - Conditional Statements
  - Loops
  - Arrays
  - Strings
  - Namespaces
  - Standard Libraries
- Further Topics
  - Functions
  - Input / Output Operations on Files
  - Error Handling
  - Command Line Operations
- Object Oriented Programming
  - Concept Overview
  - Classes and Objects
  - Abstraction
  - Encapsulation
  - Inheritance
  - Method Overloading vs Method Overriding
  - Polymorphism
  - File Handling
  - Exception Handling

- Advanced Concepts
  - Annotations
  - Documentation
- Demo Sample C# Application
- Testing C# Code
  - MSTest
  - NUnit
  - xUnit.NET

## Booking

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