

C# Training | C Sharp Course

Introduction to the [C# Training](#)

Understanding the .NET Environment
Installing Visual Studio

Hands-on Workshop: *Creating your first application*

Learning the Fundamentals of C# Syntax

Namespaces
Using Variables, Structures, and Classes
Introduction to Classes
Working with Variables in Memory
Using Strings and the using Alias Directive

Hands-on Workshop: *Writing your first program*

Mastering Object-Oriented Programming in C#

Defining Methods and Properties
Using Object Constructors
Static Class Members
Inheritance
Polymorphism
Working with Interfaces
Abstract Classes

Advanced C# Language Concepts

String Processing with StringBuilder and Regular Expressions
Collections, Dictionaries, and Hash Tables
Using the if Statement
Applying switch for Multiple Conditions
Working with Arrays
Loops (while, for, foreach)
Operators in C#
Exception Handling
Types of Exceptions

Relationships Between Classes

Inheritance
Interfaces
Aggregation
Composition

Database Integration

Entity Framework

ADO.NET

LINQ