

C# Essentials: Building Applications Using .NET Framework

Course Objectives

This course provides a comprehensive introduction to C# programming within the .NET framework, covering essential concepts such as control flow, functions, and basic collections. By the end of the course, students will have the skills to build and debug foundational applications using C#.


Target Audience:

- Aspiring C# developers
- Beginners in programming
- IT professionals transitioning to C#
- Students pursuing software development

About the Course

Number of Hours: 20

Mode of Study: In-person (4 Days) or Online (2 Weeks, 10 h/w)

Location: United Kingdom, London 

No previous engineering or programming knowledge is required

Course Description

- **Introduction to C# and .NET Framework:** Learn the role of C# in the .NET ecosystem, set up your development environment, and write your first program.
- **Basic Syntax and Structure:** Master C# syntax, variables, data types, and operators.
- **Control Flow in C#:** Understand conditional statements and loops (if, else, switch, for, while).
- **Methods and Functions:** Define and use methods, handle parameters, return types, and explore method overloading.
- **Arrays and Collections:** Work with single-dimensional and multi-dimensional arrays, lists, and dictionaries.
- **Strings and String Manipulation:** Manipulate strings using common methods, including interpolation and the StringBuilder class.
- **Exception Handling:** Learn to use try-catch-finally blocks and throw custom exceptions.
- **File I/O Operations:** Read and write files, manage file streams, and handle directory operations in C#.

Learning Outcomes:

By the end of the training, you will be able to:

- Develop C# applications using control flow and methods
- Manipulate arrays, collections, and strings effectively
- Handle file input/output operations and manage exceptions

Equipment:

You will only need a personal laptop and your enthusiasm.

Why Us?

- ✓ World-class training materials developed by researchers and professionals.
- ✓ Value for money training
- ✓ Courses are based on hands-on activities and real case-studies
- ✓ Educators with over a decade of experience in industry
- ✓ Pre and post training support so you feel supported in your journey.

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