

C# (Level 2): Building Robust Applications using OOP

Course Objectives

This course dives deep into Object-Oriented Programming (OOP) with C#, teaching students how to design scalable and maintainable software systems. By the end of the course, students will be able to build robust applications using OOP principles such as encapsulation, inheritance, and polymorphism.

Target Audience:

- Aspiring C# developers
- Software developers
- Intermediate programmers
- Students interested in application development

About the Course

Number of Hours: 20 h

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

Location: United Kingdom, London 

Basic knowledge of C# programming is required for this training

Course Description

- **Introduction to OOP Concepts:** Review the core principles of OOP, including the importance of classes, objects, and access modifiers.
- **Defining Classes and Objects:** Learn how to define classes, instantiate objects, and use constructors and destructors.
- **Encapsulation:** Protect data using properties, access modifiers, and auto-implemented properties.
- **Methods in OOP:** Learn how to define instance, class, and static methods and understand their differences.
- **Inheritance and Polymorphism:** Implement inheritance in C#, create base and derived classes, and use method overriding and overloading.
- **Operator Overloading:** Overload arithmetic and comparison operators for custom object behaviors.
- **Abstract Classes and Interfaces:** Understand the differences between abstract classes and interfaces, and learn when and how to use each.

Learning Outcomes:

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

- Design and implement classes, objects, and constructors in C#
- Apply inheritance, encapsulation, and polymorphism to create scalable applications
- Use interfaces and abstract classes to build flexible and maintainable code

Equipment:

You only need a personal laptop with Visual Studio and .NET SDK installed.

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.

Register Here

or contact us:



+44 (0) 752 123 4055



Info@sponentech.co.uk

Check out other courses on [our website](#)