

C# (Level 3): Advanced Topics

Course Objectives

This course provides an in-depth exploration of intermediate C# features, focusing on creating dynamic, data-driven applications using LINQ, generics, delegates, and events. By mastering these concepts, students will gain the ability to build efficient, scalable applications that handle data manipulation, event-driven behaviour, and robust database operations.

Target Audience:

- Intermediate C# developers
- Software engineers
- Developers working on data-driven and scalable solutions

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 

Basic knowledge of C# programming is required for this training

Course Description

- **Introduction to Generics:** Learn how to use generics to write flexible and reusable code with `List<T>`, `Dictionary<TKey, TValue>`, and custom generic methods and classes.
- **Working with Generic Collections:** Understand advanced operations on collections, including adding, searching, and filtering data using generic types.
- **LINQ (Language Integrated Query):** Use LINQ for efficient querying and data manipulation, including `Select`, `Where`, `OrderBy`, and `GroupBy`, along with Lambda expressions.
- **Delegates and Event Handling:** Explore how to create and use delegates to reference methods, and implement event-driven applications with events and event handlers.
- **Building Data-Driven Applications:** Apply LINQ and generics to work with data sources, optimize database interactions, and build scalable C# applications that respond dynamically to user inputs.
- **Project:** Build a real-world C# application, incorporating LINQ queries, delegates, events, and generics to solve complex problems.

Learning Outcomes:

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

- Write efficient and reusable code using generics and LINQ
- Implement event-driven programming with delegates and events
- Build and debug intermediate-level applications with C#

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.

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