Wise Owl Training

Intermediate C#

2 day training course







Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

Designing classes

- The domestic cat object
- Properties and methods
- Encapsulation and exposure

Creating classes

- Using namespaces
- Creating constructors
- Fields, properties and methods
- Static members

The form as a class

- Partial classes
- InitalizeComponent method
- Instantiating forms

Data structures

- Generics
- Arrays
- Lists, stacks and queues
- Dictionaries

Overloading

- Overloaded methods
- Overloading constructors

LINQ theory

- Extension methods
- Ienumerability
- Query vs. method syntax

Writing LINQ

- Arrays, lists and data tables
- Criteria and ordering
- Using LET expressions

Advanced LINQ

- Projecting data
- Anonymous types
- Forcing query execution
- Taking and skipping

Types of model

- Code first
- Model first
- Database first

Entity Frameworks

- Creating entity data models
- Data contexts
- Updating models

LINQ with Entity Frameworks

- Creating a data context
- Selecting data using LINQ
- Using relationships (associations)
- Adding, editing and deleting

Advanced LINQ with EF

- Returning anonymous types
- Using stored procedures
- Extending (partial classes)

Grouping using LINQ (*)

- IGrouping and IEnumerable
- Grouping keys
- Group into and ordering
- Using multiple keys

Pre-requisites for Intermediate C# course

You should not attend this course if you are a beginner at C programming (in which case choose our two-day introduction to C# course instead).

Prices

Venue	Address	Price per place
London	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,525 per person + VAT
Manchester	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,150 per person + VAT
Online	Your home or office!	£995 per person + VAT

Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Thu/Fri 03-04 December 2026	Online	09:30-16:30	£995 + VAT	Book this
Tue/Wed 23-24 February 2027	Online	09:30-16:30	£995 + VAT	Book this
Tue/Wed 13-14 April 2027	Online	09:30-16:30	£995 + VAT	Book this
Thu/Fri 03-04 June 2027	Online	09:30-16:30	£995 + VAT	Book this

If you can't see the dates that you want, ask us about organizing a customized course at your office (we'll provide and set up the computers), or else an online course tailored to your needs.