

Fast track C#

3 day training course



Course contents

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

From our Introduction to Visual C# course

Creating forms <ul style="list-style-type: none"> • Drawing controls • Formatting forms 	Conditions <ul style="list-style-type: none"> • Using IF and ELSE • The SWITCH statement 	Files and folders <ul style="list-style-type: none"> • Stream readers and writers • The USING statement • FileInfo and DirectoryInfo
Coding form events <ul style="list-style-type: none"> • Forms and their events • The two event arguments 	Modular code <ul style="list-style-type: none"> • Passing arguments • Writing functions 	Debugging and trapping errors <ul style="list-style-type: none"> • The TRY clause • Stepping through code • Setting breakpoints
Laying out your code <ul style="list-style-type: none"> • Commenting out code • Using regions 	Arrays <ul style="list-style-type: none"> • Using arrays • Splitting text 	Using lists <ul style="list-style-type: none"> • Populating lists • Finding items
C# variables <ul style="list-style-type: none"> • Creating and using variables • The types of variable 	Looping <ul style="list-style-type: none"> • Looping n times • WHILE loops • Looping over collections 	Properties in C# <ul style="list-style-type: none"> • RO, WO and RW properties • Coding properties
Enumerations and constants (*) <ul style="list-style-type: none"> • Enumerations • Constants 		

From our Intermediate C# course

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
- InitializeComponent 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 Fast track C# course

You don't need any programming experience to attend this course (although if you've used other languages this will be useful), but you do need to be a quick learner. If you struggled with maths at school this probably isn't the right course for you!

Prices

Venue	Address	Price per place
London	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,995 per person + VAT
Manchester	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,695 per person + VAT
Online	Your home or office!	£1,350 per person + VAT

Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Tue/Thu 31st Mar/2nd April 2026	Online	09:30-16:30	£1,350 + VAT	Book this
Tue/Thu 05-07 May 2026	Online	09:30-16:30	£1,350 + VAT	Book this
Tue/Thu 02-04 June 2026	Online	09:30-16:30	£1,350 + VAT	Book this
Wed/Fri 01-03 July 2026	Online	09:30-16:30	£1,350 + VAT	Book this
Mon/Wed 03-05 August 2026	Online	09:30-16:30	£1,350 + 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.