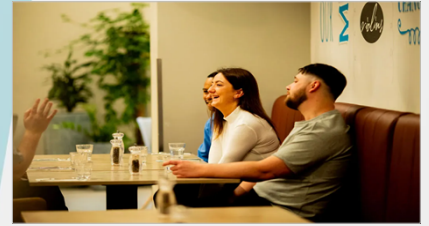


# Fast track C#

## 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

- Drawing controls
- Formatting forms

##### Coding form events

- Forms and their events
- The two event arguments

##### Laying out your code

- Commenting out code
- Using regions

##### C# variables

- Creating and using variables
- The types of variable

##### Enumerations and constants (\*)

- Enumerations
- Constants

##### Conditions

- Using IF and ELSE
- The SWITCH statement

##### Modular code

- Passing arguments
- Writing functions

##### Arrays

- Using arrays
- Splitting text

##### Looping

- Looping n times
- WHILE loops
- Looping over collections

##### Files and folders

- Stream readers and writers
- The USING statement
- FileInfo and DirectoryInfo

##### Debugging and trapping errors

- The TRY clause
- Stepping through code
- Setting breakpoints

##### Using lists

- Populating lists
- Finding items

##### Properties in C#

- RO, WO and RW properties
- Coding properties



## 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
- lenumerability
- 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
<a href="#">London</a>	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,995 per person + VAT
<a href="#">Manchester</a>	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,695 per person + VAT
<a href="#">Online</a>	Your home or office!	£1,350 per person + VAT

### Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Wed/Fri 01-03 July 2026	Online	09:30-16:30	£1,350 + VAT	<a href="#">Book this</a>
Wed/Fri 12-14 August 2026	Online	09:30-16:30	£1,350 + VAT	<a href="#">Book this</a>
Wed/Fri 02-04 September 2026	Online	09:30-16:30	£1,350 + VAT	<a href="#">Book this</a>
Mon/Wed 05-07 October 2026	Online	09:30-16:30	£1,350 + VAT	<a href="#">Book this</a>
Tue/Thu 03-05 November 2026	Online	09:30-16:30	£1,350 + VAT	<a href="#">Book this</a>

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.