



# Introduction to C# Programming with Microsoft .NET

## Course Data

Code: M2609  
Price: £1,595  
Duration: 5 days

## Location

- Wokingham
- London(City)
- Coventry
- Wakefield
- Bridgewater
- Client Site

## Course Origin

Microsoft

This five-day instructor-led course teaches developers, with programming experience in a non-graphical environment, as well as developers with limited programming experience in a graphical environment, the fundamental skills that are required to design and develop object-oriented applications for the Web and Microsoft Windows by using C# and the Microsoft Visual Studio .NET development environment.

(This course is complementary to M2124, Introduction to C# Programming for the Microsoft .NET Platform, and M2555, Developing .NET Windows Applications with C#)

M2124 provides an entry point into the curriculum for experienced developers who already have programming experience in C, C++, Microsoft Visual Basic, or Java and are moving to C# and .NET. This course provides an alternative entry point for less experienced programmers who are not familiar with object-oriented design and programming with Windows or the Web.

M2555 teaches experienced programmers how to develop Windows-based applications by using Windows Forms. M2555 is a logical next step for students who have attended M2609.

This course is intended for the following classes of developers: **New developers, Developers who understand computer programming but may have learned programming by using a non-graphical language in a university, Corporate application developers. These developers want to build solutions by using C#; use the Microsoft .NET Framework and C# in addition to Microsoft Visual Basic and the Managed Extensions for Microsoft Visual C++®; and eventually write highly functional Web and Windows-based applications and XML Web services.**

## Course Objectives

Upon completion of this course, the delegate will be able to

- Explain the .NET platform.
- Configure and use Visual Studio .NET
- Program with C#.
- Implement methods.
- Implement encapsulation, inheritance, and polymorphism in C#.
- Use C# within the .NET Framework.
- Use Microsoft ADO.NET to access and manipulate data in a database.
- Create feature-rich Windows-based applications.
- Create a Web application by using Web Forms.
- Use XML Web services in a C# application.
- Experiment with more advanced features of C#.

## Course Content

This covers the following topics: -

- Getting Started
- Understanding C# Language Fundamentals
- Creating Objects in C#
- Implementing Object-Oriented Programming Techniques in C#
- Programming with C#
- Building .NET-based Applications with C#
- Using ADO.NET to Access Data
- Creating Windows-based Applications
- Using XML Web Services in a C# Program
- Creating a Web Application with Web Forms
- Application Settings and Deployment
- Exploring Future Learning

## Course Prerequisites

Delegates are required to meet the following prerequisites:

- Familiarity and comfort with basic operating system functions such as file manipulation.
- Understanding of the basics of structured programming, including concepts such as flow control, variables and parameters, and function calls.
- MSDN Training Course 1587—Introduction to Programming with Microsoft Visual Basic 6, may help students gain basic skills in programming techniques.
- At least 3 months experience developing applications in either a graphical or non-graphical environment, or equivalent knowledge.
- Experience with object-oriented programming and concepts is NOT required.

## Testing and Certification

- There are no Microsoft Certified Professional exams associated with this course.