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## Foundations of C# Programming and the .NET Framework

Duration: 5 Days Course Code: GK2346

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### Overview:

In this course, you will be introduced to the .NET framework through an overview of languages, libraries, services, and tools. You'll then learn the foundations of the C# language. From basics to the newer features such as generics, partial classes, static classes, global namespace qualification, and so forth, are integrated throughout the course.

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### Target Audience:

Developers who: Want to gain in-depth knowledge of the core C# language Need a fast introduction to the .NET platform architecture Would like an overview of how to navigate the .NET Framework class library

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### Objectives:

- Examine core language features such as types, variables, and control constructs
  - Use object-oriented features such as class, interface, protection, and inheritance
  - Perform error notification and error handling using exceptions
  - Use properties to implement the private data/public accessor pattern
  - Use namespaces to group related types
  - Use delegates and events to implement callbacks
  - Override Object class methods such as ToString
  - Avoid dll conflicts during deployment
  - Use dynamic binding and polymorphism to write generic code (i.e., less code!)
  - Distinguish between "implementation inheritance" and "interface inheritance"
  - Use ADO.NET to connect to SQL Server and run a simple query
  - Build a basic Windows Forms GUI
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### Prerequisites:

■ Working knowledge of at least one other high-level language. Note: The difficulty level is ideal for programmers coming from languages like VB6, Pascal, or C. Individuals with a mainframe or scripting background will find the course very challenging—you should study an introductory programming text before attending. If you have some C++ or Java experience, some material will be familiar, but the course will still be beneficial. Experienced C++ or Java programmers should move directly to Essential .NET.

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### Content:

Assemblies

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## Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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[www.globalknowledge.com/en-ae/](http://www.globalknowledge.com/en-ae/)

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