

Course Aims:

This course is designed to provide developers, who already have some C# experience, with the experience they need to develop more complex C# applications for the Microsoft .NET platform.

Course Outline:

Review of The Microsoft .NET Platform: • The .NET platform • The .NET framework • The Common Language Runtime environment Windows Forms: • Windows forms applications • Adding controls to forms • Windows events Menus: • Menu properties • Menu Events • Pop up menus Data Validation: • Validation events • The ErrorProvider control Advanced Controls: • Splitter windows • Docking controls and panels • Treeview control • Listview control Advanced Windows & Dialogs: • MDI • Creating dialogs • Common Dialog control Creating New & Extending Existing Controls: • User controls • Subclassing existing controls The Windows Registry: • The registry class • The RegistryKey class Serialisation: • Simple serialization • Inheritance & serialisation • Serializing contained classes Databases & ADO.NET: • Connecting to a database • Accessing data • Displaying data in a forms application	Working With Datasets: • Data binding • Disconnected datasets Working with XML: • The structure of XML • XML Schemas • Creating & using a schema ASP .NET: • Web server requests & responses • Managing state • Server controls • Event handlers ASP .NET Validation: • Server validation • Client validation Web Forms: • Managing Security • Querying data • Data on demand • Editing data Web Forms: • DataGrid control • Navigating between forms • Other data controls Web Services: • SOAP • Web Service Description Language • Building & using a web service • Asynchronous web services Multithreaded Applications: • Thread pool • Thread synchronisation Office Automation: • Primary Interop Assembly • Adding a reference Distributing Applications: • Packaging Issues • Packaging Tools
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Target Audience:

Systems and applications programmers who will be developing systems in C#. Anyone who wants a practical understanding of C# will benefit from this course. It is suitable for software developers who want to expand their knowledge in a powerful all-purpose language.

Assumed Knowledge:

Participants should have a good knowledge of programming techniques and at least a basic knowledge of the C# language equivalent to that obtained from the C# programming introduction course.