

# Course Outline | Microsoft Developing Windows Applications with C#

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4 day(s)

## Overview

Developing Windows Applications with C# course is intended for the intermediate programmer who is responsible for designing and building Windows-based applications with the .NET Framework. It is designed for developers who already have some C#.NET development skills.

## Crafts

C#

## Prerequisites

Experience with a .NET language such as Visual C# .NET or Microsoft Visual C++ .NET or Experience developing basic applications with MFC and/or Microsoft Visual Basic 6.0

## Course Outline

### Introducing Windows Forms

- Creating a Form
- Adding Controls to a Form
- Creating an Inherited Form
- Organizing Controls on a Form
- Creating MDI Applications

### Working with Controls

- Creating an Event Handler for a Control
- Using Windows Forms Controls
- Using Dialog Boxes in a Windows Forms Application
- Adding Controls at Run Time
- Creating Menus
- Validating User Input

### Building Controls

- Extending and Creating Controls
- Adding Design-Time Support for Controls
- Licensing a Control

### Using Data in Windows Forms Applications

- Adding ADO.NET Objects
- Configuring ADO.NET Objects
- Accessing and Modifying Data by Using DataSets
- Binding Data to Controls
- Overview of XML Web Services
- Creating a Simple XML Web Services Client
- Persisting Data

### Interoperating with Managed Objects

- Using .NET and COM Components in a Windows Forms Application
- Calling Win32 APIs from Windows Forms Applications

### Printing and Reporting in Windows Forms Applications

- Printing From a Windows Forms Application
- Using the Print Preview, Page Setup, and Print Dialogs
- Constructing Print Document Content by Using GDI+

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- Creating Reports by Using Crystal Reports

## Asynchronous Programming

- The .NET Asynchronous Programming Model
- The Asynchronous Programming Model Design Pattern
- How to Make Asynchronous Calls to Any Method
- Helping Protect State and Data in a Multithreaded Environment

## Enhancing the Usability of Applications

- Adding Accessibility Features
- Adding Help to an Application
- Localizing an Application

## Deploying Windows Forms Applications

- .NET Assemblies
- Deploying Windows Forms Applications

## Securing Windows Forms Applications

- Security in the .NET Framework
- Using Code Access Security
- Using Role-Based Security