

Visual Studio: Windows Workflow Foundation

Learn via: **Classroom**

Duration: **3 Day**

Overview

Microsoft has provided the Windows Workflow Foundation, a set of assemblies based on the .NET Framework 2.0 (as part of the .NET Framework 3.0), along with a full-featured workflow designer built on top of Visual Studio 2005. Windows Workflow Foundation makes it easy to create applications that follow a flow, or react to events and move from state to state. By providing a visual interface for designing the applications, and by binding code activities directly to the design of the application, Windows Workflow Foundation makes it easier than ever to create and maintain complex business applications. In addition, Windows Workflow Foundation provides a runtime engine that manages your application's behavior (that is, the "plumbing") and enforces the workflow. The runtime makes sure the workflow behaves in the manner in which you designed and coded it. This course can be delivered in Visual Basic or Visual C# to accommodate a student's language preferences.

Prerequisites

There are no prerequisites for this course.

Who Should Attend

This course is designed for .NET Developers who are interested in implementing the features of Windows Workflow Foundation to create applications that rely on workflow processing.

What You Will Learn

- Understand the prerequisites for Windows Workflow Foundation
- Investigate all the available workflow activities
- Handle exceptions in workflow applications
- Work with Delay and Listen activities
- Use RuleSets and Policy activities in workflows
- Provide bi-directional communications between the workflow and the host
- Understand the difference between sequential and state machine workflows
- Understand when and how the workflow runtime persists information about a workflow
- Understand when and how the workflow runtime tracks information about a workflow
- Understand how to group activities into a transaction
- Modify an executing workflow from the host application
- Explore how to maintain state between workflow Web service method calls

Outline

- Creating and Hosting Workflows
- Applying Conditions and Rules
- Communicating with Workflows
- Creating and Configuring Custom Activities
- Creating and Managing Runtime Services
- Managing Faults, Cancellations, Transactions, and Compensations