



CTREC HILTON
IT ACADEMY

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Class Code: 6462
Number of Days: 2
Format: Instructor-Led

Visual Studio 2008: Windows Workflow Foundation

Course Description: This two-day instructor-led course provides students with the knowledge and skills to build and configure a Windows Workflow Foundation (WF) solution.

Target Audience: This course is intended for application developers who know how to create applications in Visual Studio 2005 or 2008. The course does not require previous experience creating workflow-based solutions.

Prerequisites: Before attending this course, students should have intermediate experience developing applications by using previous versions of Microsoft Visual Studio at level 200.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

At Course Completion:

After completing this course, students will be able to:

- Explain Windows Workflow Foundation concepts and features
- Create sequential workflows
- Create state machine workflows
- Modify workflows at run time
- Implement conditional branching in a workflow
- Define and execute rule sets
- Forward chain rules
- Change rules at run time
- Call methods on the host process
- Handle events from the host process
- Consume services from a workflow
- Publish a workflow as a service
- Create a custom activity
- Create a custom composite activity
- Define custom activity layout
- Customize activity serialization
- Create a custom runtime service
- Hydrate and dehydrate workflows

At Course Completion:

- Monitor workflows
- Track workflows
- Handle faults in a workflow
- Handle cancellations in a workflow
- Create and manage transactions in a workflow
- Create and handle compensations

Course Outline

Module 1: Creating and Hosting Workflows

This module explains how to create and host Windows Workflow Foundation (WF) workflows.

Lessons

- Overview of Windows Workflow Foundation
- Creating Sequential Workflows
- Creating State Machine Workflows
- Modifying Workflows at Runtime

Lab : Creating and Hosting Workflows

- Creating and hosting a simple sequential workflow
- Passing parameters into a workflow
- Creating a state machine workflow
- Hosting the state machine workflow

After completing this module, students will be able to:

- Explain Windows Workflow Foundation concepts and features.
- Create sequential workflows.
- Create state machine workflows.
- Modify workflows at run time.

Module 2: Applying Conditions and Rules

This module explains how to apply conditions and rules in a workflow.

Lessons

- Implementing Flow Control
- Defining and Executing Rule Sets
- Forward Chaining of Rules
- Changing Rules at Run Time