



WCF Course Content:35-40hours

Course Outline

Introduction to WCF

- Review the Challenges of Building Distributed Applications
- Examine the Concept of Service Oriented Application
- See a High Level Overview of Windows Communication Foundation
- Building and Host your First WCF Service

Hosting and Calling WCF Services

- Understand how to Host a WCF Service
- Understand how Clients Communicate with Services
- See how to Host and Call a Service using Multiple Bindings
- See how to Configure Endpoint in Code and in Configuration Files

Bindings and Contracts

- Understand how to Work with Bindings
- Explore how to Create Service and Data Contracts
- See the Implications of Modifying Service and Data Contracts

Exceptions, Diagnostics and Message Patterns

- Learn how to Handle Exceptions in WCF Services
- See Techniques for Diagnosing Services
- Explore One-Way and Duplex Communication

Sessions and Transactions

- See how to use Sessions to Maintain State in WCF Services
- Explore Options for Controlling the Lifetime of a Service Instance
- Learn how to Add Transactions Support to a WCF Service

WCF Security



- Explore the Basics of WCF Security
- See how to Authenticate Callers of a Service
- See how to Authorize Callers Based on Roles

Workflow Services

- Learn how to Expose a Workflow as a WCF Service
- See how to Call a WCF Service from a Workflow
- Understand how to Build a Stateful Workflow Service

RESTful Services and Syndication

- Explore how to Build WCF Services that Support Representational State Transfer (REST)
- See how to Build WCF Services that Create RSS and Atom Feeds