

<u>10263AC</u>	<u>Developing Windows Communication Foundation Solutions with Microsoft Visual Studio 2013</u>	<u>3 DAYS</u>	<u>SATV : YES</u>
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## Course Description

In this course, students will learn to develop Windows Communication Foundation applications using .NET Framework 4 and Visual Studio 2010. Service Oriented Application design considerations will also be included as part of this training

## Course Outline

### Module 1: Testing and Troubleshooting Microsoft Windows Communication Foundation Services

- Errors and Symptoms
- WCF Faults
- Debugging and Diagnostics Tools
- Runtime Governance

### Module 2: Security

- Introduction to Application Security
- The WCF Security Model
- Transport and Message Security
- Authentication and Authorization
- Claim-Based Identity

### Module 3: Introduction to Advanced Microsoft Windows Communication Foundation Topics

- The Asynchronous Invocation Pattern
- Extending WCF
- Routing
- Workflow Services

### Module 4: Service-Oriented Architecture

- What Is SOA?
- The Benefits of SOA
- Scenarios and Standards
- Introduction to WCF

### Module 5: Getting Started with Microsoft Windows Communication Foundation Development

- Service Contract and Implementation
- Hosting WCF Services
- WCF Behaviors
- Consuming WCF Services

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## **Module 6: Hosting Microsoft Windows Communication Foundation Services**

- WCF Service Hosts
- ServiceHost
- Hosting WCF Services in Windows Services
- IIS, WAS, and AppFabric
- Configuring WCF Hosts
- Service Hosting Best Practices

## **Module 7: Defining and Implementing Microsoft Windows Communication Foundation Contracts**

- What Is a Contract?
- Contract Types
- Messaging Patterns
- Designing WCF Contracts

## **Module 8: Endpoints and Behaviors**

- Multiple Endpoints and Interoperability
- WCF Discovery
- WCF Default Endpoints
- Instancing and Concurrency
- Reliability