

MCTS Syllabus

Windows Communication Foundation Development with Microsoft NET Framework 4

Duration : 30 days

Service-Oriented Architecture

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

Getting Started with Microsoft Windows Communication Foundation Development

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

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

Defining and Implementing Microsoft Windows Communication Foundation Contracts

- What Is a Contract?
- Contract Types

- Messaging Patterns
- Designing WCF Contracts

Endpoints and Behaviors

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

Testing and Troubleshooting Microsoft Windows Communication Foundation Services

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

Security

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

Introduction to Advanced Microsoft Windows Communication Foundation Topics

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