

# Windows Communication Foundation (2 days)

## **Introduction to WCF**

- Message Patterns
- Contracts
- Channels and Bindings
- Endpoints

## **Creating Contracts**

- Designing Service Contracts
- Designing Data Contracts
- Designing Message Contracts
- Specifying and Handling Faults
- Implementing Contracts

## **Configuring Services**

- Hosting Services
- Creating a Self Hosted Service
- Hosting a Service in IIS
- Hosting Services in WAS
- Hosting using configuration files
- Creating and using Bindings and Endpoints
- Using Behaviour Configurations
- Securing Services
- Sessions, Instancing and Concurrency

## **Building Clients**

- Building Client Applications
- Using configuration files
- Using svcutil command
- Calling Operations Asynchronously
- Client runtime behaviours
- Securing clients

## **Data Transfer and Serialization**

- Working with Data Contracts and Message Contracts
- Forward compatible Data Contracts
- Data Contract Versioning
- Data Contract Serializaer

## **Queues and Reliable Sessions**

- Introduction to MSMQ
- Queueing in WCF
- Overview of Reliable Sessions
- Transaction Support in WCF

## **Security**

- Transport and Message Security
- Bindings and Security
- Authentication and Authorization
- Auditing

## **Lab Setup**

Windows 2003 Server or Windows XP with SP2 or Windows Vista Ultimate / Business Edition



MS Office 2003 / 2007  
.NET Framework 3.0 SDK / Runtime Components  
Visual Studio.NET 2005  
WCF Extensions for Visual Studio.NET 2005

### **Pre-Requisites**

.NET Framework (C#)  
ASP.NET Web Services  
XML and Schemas