

## **ADVANCED .NET WCF COURSE CONTENT**

### **CHAPTERS & STRATEGIES TOPICS:**

#### ❖ **INTRODUCTION TO WCF:**

- What is WCF?
- Address, Binding and Contract
- WCF Services and Clients
- IIS Hosting
- WCF Architecture

#### ❖ **ADDRESSES AND BINDINGS:**

- Addresses
- Bindings
- Message Exchange Patterns
- Configuring Bindings
- Interoperating with ASMX Web Services
- Hosting in a Console Application
- Channel Factories
- Multiple Endpoints

#### ❖ **SERVICE CONTRACTS:**

- Defining Service Contracts
- Defining Operation Contracts
- Services With Multiple Contracts
- Contract Inheritance
- Operation Overloading
- WCF restful services

#### ❖ **INSTANCE MANAGEMENT:**

- Using Per-Call Services
- Using Per-Session Services
- Using Singleton Services
- Configuring Behaviors

#### ❖ **DATA CONTRACTS:**

- Implementing Data Contracts
- Mapping Data Contracts to XSD Schema
- Serialization
- Arrays and Generic Collections
- Enums
- Versioning Data Contracts

#### ❖ **MORE ABOUT SERVICE CONTRACTS:**

- Versioning Service Contracts
- Implementing Message Exchange Patterns
- Oneway Contracts
- Duplex Contracts
- Asynchronous Proxies

❖ **HANDLING ERRORS:**

- Faults and Exceptions
- Generating and Handling Faults
- Fault Contracts
- Faults and Sessions

