

# Kore Infotech Learning Centre

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## ASP.NET Web Services Training: Building Web Services with C#

### C# Web Services Training Overview

Accelerate's Building Web Services with C# teaches you how to build a solid foundation for the development of Web Services using C# and gain an understanding of how commonly used protocols can impact your development effort. You will learn how to create and consume ASP.NET Web Services, work with XML serialization, and understand discovery and UDDI. You will also learn how current and evolving standards, such as Web Service Enhancements (WSE) 3.0 and Message Transmission Optimization Mechanism (MTOM), can be integrated in Web Service development. Discover how to secure your Web Services using different technologies like X.509 certificates and Kerberos. Learn how to increase reliability of your XML messages by locating bottlenecks and invoking delivery verification.

### C# Web Services Training Objectives

- Build and consume ASP.NET Web Services
- Call Web methods asynchronously
- Learn about WSE 3.0 Security and Policy
- Perform large XML data transfers with MTOM
- Implement SOAP headers and extension
- Learn how to optimize and protect message queuing

### C# Web Services Training Outline

- Building and Consuming Simple Web Services
  - The Need for Web Services
  - Web Service Design
  - Using Visual Studio to Create a Web Service
  - Web Service Clients
  - Discovery of Web Services with UDDI
- Configuring and Customizing a Web Service
  - Working with Complex Data
  - Working with XML Serialization
  - SOAP Formatting
  - Namespaces and Binding
  - Using Attributes for Custom Serialization
  - Configuration Files

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- **Calling Web Methods Asynchronously**
  - The Need for Asynchronous Web Services
  - One-Way Methods
  - Asynchronous Web Methods
  - Asynchronously Calling Web Methods
  - Client Classes for Asynchronous Calls
- **Implementing WSE 3.0 Security and Policy**
  - Web Service Enhancements (WSE) 3.0
  - WSE 3.0 Security
  - WSE 3.0 Tool
  - X.509 Certificates
  - Kerberos
  - UserName Tokens
- **Implementing WSE 3.0 Custom Policy Assertions**
  - Coding an Assertion
  - Securing SOAP Messages
  - Using a WSE 3.0 Custom Policy
- **Large Data Transfers Using WSE 3.0**
  - Exploring MTOM
  - MTOM and WSE 3.0
  - Implementing Large Data Transfers by Using WSE 3.0
- **Implementing WSE 3.0 SOAP Messaging**
  - TCP and Web Services
  - SoapClient and SoapService
  - SoapSender and SoapReceiver
- **Implementing SOAP Headers and Extensions**
  - SOAP Headers
  - SOAP Extensions
  - Implementing Extensions
- **Optimizing and Protecting Message Queuing**
  - Reliable Messaging
  - Message Queue Bottlenecks
  - Message Delivery Verification
  - Message Queue Encryption
  - Message Queue Authentication
  - Correlating Message Replies
  - Message Validation