

Understanding and Implementing Java Web Service

- **Course Number:** Java-Web
- **Length:** 1 Day(s)

Certification Exam

There are no exams associated with this course.

Course Overview

This overview course will utilize a series of instructor lectures to introduce the participants to the concept of Web Services in an integrated eCommerce environment and their rapidly expanding role in application integration. This course will strive to introduce the following topics; defining the role of Web Services, depict the architecture of the Service Oriented Architecture, benefits and drawbacks of this emerging approach, illustrating the role of XML, defining Simple Object Access Protocol (SOAP), depicting the structure of SOAP messages, use of Web Services Descriptive Language (WSDL), emerging use of Web Service Inspection Language (WSIL), evolving legacy application integration efforts and the role of UDDI registries.

Prerequisites

Basic knowledge of programming and Java programming language is required.

Audience

This course is intended for software developers using Java programming language.

Course Outline

- Level 1
- Web Services Overview
- Business Integration Issues
- Integration Barriers
- Solution: Integrated Architecture
- Current Integration
- B2B Integration Solution
- Web Service Advantages
- Web Service Characteristics
- Defining a Web Service
- Emerging Standards
- Service-Oriented Architecture
- SOA and Web Services
- Illustrating SOA Environment
- Define XML Web Service
- Web Service Components
- Enterprise Solutions Platform
- Leading Web Service Vendors
- J2EE vs .NET
- Implementation Architecture
- Client-tier Connectivity
- Web Services Interaction

- Market Dynamics
- Web Service Model
- B2C and B2B Comparison
- Legacy Integration
- Web Services Integration
- Level 2
- Examining SOAP
- Illustrating SOAP
- SOAP Messaging
- Soap Hides Implementation
- Web Services Protocol Stacks
- SOAP Architecture
- Basic SOAP Architecture
- SOAP Envelope
- SOAP Message
- SOAP Attachments
- Defining WSDL
- Illustrating WSDL
- WSDL Components
- WSDL Parts
- Service Orchestration
- UDDI Registries
- Web Services Discovery
- Illustrating Service Registries
- UDDI Registry
- UDDI Process
- UDDI Models
- UDDI Data Models
- UDDI Data Model Example
- J2EE Integration
- Three-Tier Architecture
- Three-Tier with Web Services
- EJB Web Services
- JAXRPC/RMI with EJBs
- .NET Integration
- Defining .NET Web Services
- .NET Web Service Components
- Closure