SETC Training Corporate Logo

Java Training: Implementing SOA using Java EE Technologies (JSOA, 4 jours)

Description

The course Implementing SOA using Java EE Technologies (Java Training) demystifies Java SOA architecture & implementation. The training starts with SOA fundamentals, terminology & implementation., The course includes an in-depth discussion on SOA analyzing & design. The various SOA technologies such as XML, Schemas & Web Service are covered. By the end of the training, you will understand how to design, implement & maintain an SOA solution using Java web services.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Service Oriented Architecture

- What is SOA?
- SOA Terminology: WSDL, UDDI, SOAP, BPEL, etc
- What does an SOA solution look like?
- SOA Advantages and Disadvantages
- SOA Technology Overview
- About Messaging Technologies
- Distributed Applications: Technology and Infrastructure
- Web Applications: Technology and Infrastructure.
- Java Web Services: Technology and Architecture
- Legacy Integration
- SOA Security
- The Need for Analysis

Analyzing Requirements

- Functional versus non-Functional Requirements
- Gathering Information
- Functional Requirements: Identifying Actors and Use Cases
- Using Decision Tables
- Writing Fully Dressed Use Cases
- Writing Use Case Diagrams
- Writing Business Activity Diagrams
- Elaborating a Domain and Service Model
- Non-Functional Requirements: The Supplementary Specification
- Change Management
- Large Systems

Service Design

- Translating Functional Requirements to a System Design
- Designing the Web Service
- Using Generalization and Aggregation
- Creating a Design Class Diagram
- Generating the Code

XML Fundamentals

- Well Formed versus Valid XML Documents
- XML Document Validation: DTDs and Schemas
- Writing Effective Schemas
- XSL Document Processing
- Using XML in B2B Integration
- About SOAP and WSDL

Creating Web Services

- Web Service Architecture Revisited
- About Data Types and Object Serialization
- Creating the Web Service
- Implementing Web Methods
- Generating Web Service Artifacts: WSDL, Proxy Classes, etc..
- Creating a Web Service Client
- Securing Web Services
- Optimizing Web Services
- Applying Design Patterns

Business Integration with JEE

- JEE Overview
- Using Enterprise Java Beans
- Creating Session Beans
- Creating CMP and BMP Entity Beans
- Creating Message Driven Beans
- Exposing EJBs using Web Services
- Security Considerations

The Road Ahead

- WS Technology: What is Next?
- The Drive towards Standards
- Using ORM tools like Hibernate
- Open Discussion on Possible Client Implementations