SETC Training Corporate Logo

Java Training: Mastering Eclipse & WebSphere (EBOOTCP, 4 jours)

Description

The course Mastering Eclipse & WebSphere (Java Training) discusses multi-tiered development with Java. Beginning with basic Java development and servlets, the course covers Java Server Pages, Tag Libraries and Filters. Further, you learn to implement Struts and EJBs. The course concludes with an overview of JMS messaging, ANT scripting & UNIT testing.

Tarifs

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

Plan de cours

Java Architecture

- Iterative Development
- The Rational Unified Process
- The Application Tiers: 1, 2 and 3-tiered applications
- Distributed Applications: Technology and Infrastructure
- Web Applications: Technology and Infrastructure.
- The Java Answer
- Packages and Files
- JEE Architecture

Getting Started with MyEclipse

- Introduction
- Workspaces and Projects
- Using Views and Perspectives
- Writing Code in Eclipse
- Creating Unit Tests
- Debugging using Eclipse
- Working with the Various Editors: XML, JSP, EJB and More
- Reference
- Documentation and Testing
- Importance of Documentation
- Common Everyday use of Javadoc
- Making use JUnit for Testing Purposes

Creating Java Applications with MyEclipse

- Creating the Java Project: Understanding the Available Templates
- A Note on the Target Java Runtime and the Target Platform
- Setting up Perspectives and Java Project Properties
- Planning the Project Structure: Managing Packages and Classes
- Defining the Application Structure: Presentation, Business and Data
- Creating a Simple Desktop Application: Creating the Interface
- Creating the Business Layer: Making use of Java Beans
- Using External Resources: JNDI
- A Few Useful Testing Tools
- Preparing for Application Deployment

Packaging and Deploying the Application
Performing the Deployment and Verifying the Results
Java EE Web Programming
Servlets
The JSP Page
Using Beans
State Management
Tag Libraries
Creating a Simple Tag
Using Tag Libraries
Validation Tags
Creating and Using Controls
Servlet Filters
Struts Fundamentals
JSP Model 1 and Model 2 Architecture
Struts Startup
Struts Architecture
Creating a Struts Form
The Action Form
Struts Essentials
Using DynaActionForm
Implementing the Action
Using ActionForward
Using Wildcards
Adding a Message Bundle
Configuring Exception Handling
Using Struts Tag Libraries
Using Struts Tags: A Complete Example
EJB Fundamentals
EJB Fundamentals: Basic Structures
Creating a Simple EJB
The Deployment Descriptor
EJB Deployment
Creating an EJB Client
Session Beans
Session Bean Basics
Creating a Stateless Session Bean
Creating a Stateful Session Bean
Entity Beans
Entity Bean Fundamentals
Creating a BMP Entity Bean
CMP Entity Beans: The Mechanics
Deploying a CMP Entity Bean
Advanced Entity Bean Concepts
Understanding Database Relationships
Implementing BMP Entity Bean Relationships
Implementing CMP Entity Bean Relationships
Using Local Interfaces
Using Handles
Using Environment Variables

Implementing EJB Transactions
Using Programmatic Transactions
Declarative Transactions
Message Driven Beans
About Message Driven Beans
Creating a Message Driven Bean
Creating the Bean Class
Deploying a Message Driven Bean
The Message Driven Bean Client: Point to Point
The Message Driven Bean Client: Publisher-Subscriber
Introducing Ant
Preparing and Understanding the Environment
Creating Projects
Creating Project Structures
Creating an Ant Build File
Executing a Build
Understanding Program Structure
Executing a Program
Working with an IDE
Mastering Ant from the Command Line
Ant Language Elements
Datatypes and Properties
Working with Paths
Understanding and Working with Filesets
Referencing Specific Elements`
Advanced Datatypes
Understanding and Working with Properties
Controlling Ant with Properties
About References and Library Dependencies
The Ant Data Model
Packaging projects with Ant
Working with Files
Understanding and Working with Mappers
Preparing a Package
Understanding JAR, WAR and EAR Files
Creating and Testing with JAR files
Creating Zip files
Packaging for Unix
Working with Resources
Team Development
Team Development Architecture
Preparing for Team Development
About the Repository and Code Synchronization
Synchronizing Workspaces
About Versioning and Version Control
Working with Perforce and the Perforce Perspectivew
Creating a Perforce Project
Working with Code in a Team Environment
Managing Code Changes
Managing and Resolving Conflicts