

Intermediate Java

Course Number: GWE10806

Days: 5 days

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Prerequisites

A working knowledge of Java. Beginning or Java Fundamentals

Course Summary and Lessons

The five-day course begins with a review of Java Fundamentals . A major part of the course is spent looking at JDBC and JAXP. Throughout the course, students will create code during labs. Students will learn key concepts for Java.

Lesson 1: Java Application Development

- Vector and Hashtable
- Java I/O
- File System Access
- TCP/IP
- Networking
- RAD Performance Tooling: Profiling

Lesson 2: Test-driven Development

- JUnit
- Java Logging

Lesson 3: JDBC Fundamentals

- Introducing JDBC
- JDBC Drivers
- Database Concepts

Lesson 4: Getting Started With JDBC

- Making Simple Database Connections
- Handling SQL Exceptions and Warnings
- Retrieving Data from the Database
- Updating Data in the Database

Using Prepared Statements

Lesson 5: XML Review

XML Mechanics
Namespaces and Schemas

Lesson 6: JAXP and SAX Parsing

JAXP and SAX

Lesson 7: JAXP and DOM Parsing

JAXP and DOM (Part 1)
JAXP and DOM (Part 2)

Lesson 8: JAXP and Transformations

XPath
XSLT Transformations in Java
XML in Java: JAXP and JAXB

Lesson 9: JMX Management Beans

XPath
XSLT Transformations in Java
XML in Java: JAXP and JAXB

Lesson 10: Java EE 5 Advanced Programming

Java Web Application Architecture
J2EE Architecture
J2EE Software Packaging
Deployment Descriptors
J2EE Module Structure
Enterprise Archive (EAR)
Web Modules and WAR
EJB Modules
Web Application Programming Model – MVC
The Infrastructure for Enterprise Web Applications