

TheTestplace.com

An Introduction to Java™ Enterprise Development

Description

This 5-day course teaches participants the key concepts of application development using J2EE™.

The course has Lecture-style presentation with numerous hands on exercises that apply the concepts discussed.

Format

5 days 50% lecture 50% lab exercises

Participants

The course is intended as an introduction and is therefore targeted at people that have little or limited enterprise experience.

Prerequisites

Delegates need good general computing experience with some development experience using J2SE™ (approx 6 months)

Working knowledge of Windows® or Linux®/Unix® operating systems

Presentation Requirements

The maximum number of delegates for the course is 12

A room that allows delegates to both work freely at their workstation and view a screen

Direct project from computer system for Tutor for display of slides and demonstration of Programming

PC to screen projector
Whiteboard or flipchart

Course Outline

Introduction
Information Modelling and OO
Java Program Structure
Objects, Classes and Interfaces
Java Data types, Variables and Operators, Flow Control
Methods
Arrays and Array Manipulation
Exceptions and Exception Handlers
Constructors
Derivation, Inheritance and Polymorphism
UML, Design Patterns, Refactoring, Idioms
Java Stream IO
Class Properties
Reflection
Java Beans
Introduction to Multi Tier Architecture
The Java 2 Enterprise Edition Environment (j2EE)
Java RMI Part 1
Java RMI Part 2
Java Database connectivity JDBC
Java and CORBA
Enterprise Java Beans
EJB Session Beans
EJB Entity Beans
Other J2EE API's – JTS, JMS and JNDI

Course Materials

Course notes, slides and exercises are supplied in Adobe Acrobat format files (suitable for PC, Mac, and Unix)

Lab exercises are supplied in text files

On-Site Equipment Requirements

The course is based on the Java language as described by The Java Language Specification and associated documents

To deliver the course each delegate should have individual access to a system, the system shall have:

A Java 2 compiler and runtime virtual machine (e.g. JDK1.3.1)
The J2EE SDK (j2sdee1.2.1)
The Java Bean Developer Kit (BDK1.1)

A text editor such as Notepad or JBuilder IDE
Adobe Acrobat Reader

An Account on the system that allows a user to compile and execute programs and modify their environment variables

Winzip or equivalent
A Java enabled web browser

Additionally it must be possible for the course materials including lab exercises to be transferred onto the systems from an ISO 9660 CD-ROM

If no suitable equipment is available then TFJ can arrange for the hire of equipment for the duration of the course.