

An Introduction to the Java™ Language (3 Days)

Description

This 3 day course teaches participants the key concepts and principles of application development using the Java™ Language.

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

Format

3 days 50% lecture 50% lab exercises

Participants

The course is intended as an introduction to the Java language for delegates that have little or no prior programming experience

Prerequisites

Delegates need good general computing experience and preferably should have some programming experience. Delegates need to understand the concept of files and directories and be familiar with the use of a text editor.

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
Course Objectives
History And Evolution Of Java
Information Modelling
OO System Analysis
Program Structure
Program Execution
Objects, Classes and Interfaces
Java Primitive and Reference Types
Flow Control
Arrays And Arrays Manipulation
Strings
Methods
Exceptions
Stream I/O And Files
Constructors in Java
Overloading
Derived Classes (Inheritance)
Polymorphism
Java Applets
Building GUI's Frames, Panels etc..
Summary and Close

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 suitable for PC or Unix

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 :

- (1) A 1.2 Java compiler and runtime virtual machine
- (2) A text editor
- (3) Adobe Acrobat Reader
- (4) An Account on the system that allows a user to compile and execute programs

Additionally it must be possible for the course materials including lab exercises to be transferred onto the system 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.