

Starting Java for Experienced Programmers

A one-day transition through JShell, core syntax and small applications

FA-0781 · 1 day

Software Development

Introduction

Transfer existing programming knowledge to Java through short demonstrations and guided exercises. Explore the Java ecosystem, prototype with JShell, use an IDE and build a small application. The course provides a starting point for specialised Java training rather than complete application, mobile, web or streaming development.

Learning outcomes

- Explain Java uses and compatibility considerations when selecting a JDK and framework.
- Prototype core Java syntax in JShell and use a suitable IDE.
- Apply methods and object-oriented concepts in guided examples.
- Compile and run a small program with file I/O and external libraries.
- Identify further training needed for specialised platforms.

Prerequisites

Current programming experience in another language, familiarity with OOP and file systems, basic server concepts and high-school mathematics. A compatible JDK/IDE environment on Windows, macOS or Linux, or authorised remote access, plus internet and English-language technical reading. No ECMA-specific language or unrestricted root access is required.

Training outline

1. Module 1 — Java ecosystem and core syntax

- Overview of Java

Understand what different versions and forms of java are for:

- Java for application development
- Java for mobile app development
- Java for Web Application development
- Java as an integration tool

Coding principles

- Flow
- Logic
- Memory
- Coding in JShell
- Operators
- Conditions
- Loops

Select a supported JDK compatible with the chosen framework and lab. Different application areas use different tooling; a one-day introduction does not qualify learners for all of them.

2. Module 2 — Methods, tooling and object orientation

Methods

- Creation
- Reusability
- Arguments
- Expressions
- Compiling
- Deployment

IDE

- Eclipse
- IntelliJ
- How to choose
- Integration
- Apply Java object-oriented concepts

Use one selected IDE; Eclipse and IntelliJ are comparison examples.

3. Module 3 — Small application practice

- I/O
- OOP implementations
- File I/O
- External Connectivity
- Assessment

Compile and run the course example, add a selected external library and review basic connectivity. Deployment is a small guided example, not independent production readiness.