# Java SE: Programming II

**Category:** Software Development & Programming | **Vendor:** Oracle

**Duration:** 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

This is a second-level course for programmers learning the Java language. It rounds-out the topics that were taught in the previous course, Java SE: Programming I, and provides additional key skills for Java programmers, such as secure coding, modular programming, and database access. This course uses today's main Java version for its practices (currently Java 11).

## About This Course

Functional Programming

- Functional Interfaces and Lambda Expressions
- Collections Streams, and Filters
- Built-in Functional Interfaces

Modular Programming

- Migration to a Modular Application
- Services in a Modular Application
- Introduction to Modular Programming in Java

Streams and Parallel Streams

- Creating Custom Streams
- Parallel Streams
- Concurrency
- Terminal Operations: Collectors

Java API Programming and Secure Coding Concepts

- I/O (Fundamentals and NIO2)
- Localization
- Database Applications with JDBC
- Secure Coding

Collections and Generics

- What is the Collections Framework?
- Type-Wrapper Classes
- Iterators
- What are Generics?

Exception Handling and Assertions

- Error handling
- Exceptions
- Assertions

## Who Should Attend

- Data Scientist
- Java Developers
- Developer
- Technical Consultant

### Prerequisites & Entry Requirements

**General Prerequisites:**

Java SE: Programming I (D102470)

# Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

- Use Lambda Expression concurrency features
- Apply modular programming practices and services to applications
- Create high-performing multi-threaded applications
- Create Java applications that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism
- Execute a Java application from the command line
- Create applications that use the Java Collections framework
- Search and filter collections using Lambda Expressions
- Implement error-handling techniques using exception handling
- Implement input/output (I/O) functionality to read from and write to data and text files
- Manipulate files, directories and file systems using the JDK NIO.2 specification
- Perform multiple operations on database tables, including creating, reading, updating and deleting using both JDBC and JPA technology

**Skills You Will Learn:**

- Use Lambda Expression concurrency features<br>- Apply modular programming practices and services to applications<br>- Create high-performing multi-threaded applications<br>- Create Java applications that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism<br>- Execute a Java application from the command line<br>- Create applications that use the Java Collections framework<br>- Search and filter collections using Lambda Expressions<br>- Implement error-handling techniques using exception handling<br>- Implement input/output (I/O) functionality to read from and write to data and text files<br>- Manipulate files, directories and file systems using the JDK NIO.2 specification<br>- Perform multiple operations on database tables, including creating, reading, updating and deleting using both JDBC and JPA technology

# Frequently Asked Questions

### Q: What delivery options are available for Java SE: Programming II?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 5-day Java SE: Programming II course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Java SE: Programming II training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Java SE: Programming II?

Yes, we provide corporate training, dedicated training, and closed classes for Java SE: Programming II. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: Java SE: Programming II, Oracle Java and Middleware Training, D102474

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### Q: Why choose Nexus Human for Java SE: Programming II?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Java SE: Programming II training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

**Professional Training & Development**

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)


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