



JAVA TRAINING

Java Se Training Certification Courses

Master Java SE fundamentals and advanced features to build robust applications. Gain the skills needed for Java certification.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

Unlock the power of foundational programming with Computer Pride's Java SE Training Certification Course. This intermediate-level program is meticulously designed to equip aspiring and current developers with a robust understanding of Java Standard Edition, the bedrock for virtually all Java applications. You'll delve into core Java syntax, object-oriented programming principles, and essential features like the Collections Framework, exception handling, and basic I/O operations. Mastering Java SE is crucial for building scalable, high-performance applications across various platforms, from desktop to web and mobile environments.

Duration	2 hours
Level	Intermediate
Vendor	Java

COURSE CURRICULUM

01 Module 1: Java Fundamentals and Object-Oriented Programming (OOP)

- Introduction to Java Development Kit (JDK) and Java Virtual Machine (JVM)
- Basic Java Syntax, Data Types, and Operators
- Control Flow Statements (if/else, switch, loops)
- Classes, Objects, Constructors, and Encapsulation
- Inheritance, Polymorphism, Abstraction, and Interfaces

02 Module 2: Advanced OOP and the Java Collections Framework

- Static Members, Nested Classes, and Enums
- Introduction to Generics and Type Safety
- Lists: ArrayList, LinkedList
- Sets: HashSet, TreeSet
- Maps: HashMap, TreeMap

03 Module 3: Exception Handling and Input/Output (I/O) Streams

- Understanding Checked and Unchecked Exceptions
- Try-Catch-Finally Blocks and Try-with-Resources
- Custom Exceptions
- File I/O: Reading and Writing Files
- Byte Streams vs. Character Streams

04 Module 4: Concurrency and Database Connectivity (JDBC Basics)

- Introduction to Multithreading and Concurrency
- Creating and Managing Threads
- Thread Synchronization and Deadlocks
- JDBC Architecture and Drivers
- Connecting to Databases, Executing Queries, and Processing ResultSets

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Java Application Developer**
- > **Entry-Level Backend Engineer**
- > **Associate Software Development Engineer (with Java focus)**

FREQUENTLY ASKED QUESTIONS

Q: How does completing this Java SE certification prepare me for advanced Java frameworks like Spring or Hibernate?

This Java SE certification provides the essential foundational knowledge in core Java syntax, object-oriented design, and critical APIs (like Collections and JDBC) that are indispensable for understanding and effectively utilizing advanced Java frameworks. A strong grasp of SE concepts ensures you can confidently transition to and master enterprise-level development.

Q: What are the recommended prerequisites for someone to maximize their learning experience in this intermediate Java SE course?

To get the most out of this course, participants should have a basic understanding of programming concepts, including variables, data types, control flow (loops, conditionals), and fundamental problem-solving logic. While not strictly required, prior exposure to any programming language will be beneficial, though all core Java concepts will be taught from the ground up suitable for an intermediate learner.

Q: Beyond syntax, what practical problem-solving skills will I gain that are directly applicable to real-world software development challenges?

This course emphasizes practical application, teaching you to design robust, modular, and efficient Java applications. You'll develop skills in effective object-oriented design, managing complex data structures with the Collections Framework, handling errors gracefully using exception handling, and interacting with databases. These skills are critical for building reliable and maintainable software solutions across various industries.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke