

Foundational Java

INSTRUCTOR-LED | 30 HOURS | ONSITE OR REMOTE

OVERVIEW

Learn Java, the most popular programming language according to the [TIOBE Index](#), used by financial services institutions, ecommerce, and insurance providers.

DELIVERY OPTIONS

- Ten 3-hour sessions over 1 week or multiple weeks

OUTCOMES

Level 1 Java Development Skills

- Read and write object-oriented code with the Java programming language.
- Debug Java applications and gracefully recover from application errors
- Run unit tests to ensure proper behavior in your Java applications

IDEAL FOR

- Developers with basic HTML, CSS, and Javascript skills.

AGENDA

9 hrs

Introduction to Java

Get to know the basic elements of the Java programming language: data types, control flow, methods, and classes.

9 hrs

Object-Oriented Programming and Inheritance

OOP is the foundation of programming in Java. Build on existing knowledge to understand how these concepts are implemented in Java.

3 hrs

Design Patterns

Design patterns are a common language for developers to discuss problems and solutions. Learn how and why the most important design patterns are used.

3 hrs

Debugging and Exception Handling in Java

Explore how debugging and exception handling work in order to build programs that fail gracefully - or even recover - on their own when failures occur.

6 hrs

Testing and Test Driven Development

TDD ensures that developers write code that considers tests from the get-go. Understand how to run unit tests to confidently change code without breaking everything around it.

