

Java Programming Fundamentals

Price: 2995

Duration: 5 days

Delivery Methods: Virtual

Overview

About this Course

This 5 day instructor-led course provides practice and understanding of Java programming. At the end of the course the student will be versed in Java well enough to begin developing or maintaining most simple Java systems. The student will be able to discern good programming practices from bad, correct syntax errors, detect and correct logic errors, create object-oriented code structures, manipulate files and databases, and know where to find answers for programming problems. Ultimately the goal of Java programming fundamentals is to give students enough of an understanding of Java so that they can become productive junior Java developers.

Java programming fundamentals will cover many of the Java keywords and their application as well as current industry coding idioms. The course goes well beyond simple programming by practicing object-oriented coding and SOLID programming principles.

The course is structured by combining short lectures with exercises. The exercises are more than simply following a pre-determined script but involve writing code from scratch, critiquing code, working in teams, modifying moderately complex systems, and exploring various code support websites.

Audience Profile

Programmers who need to design and develop Java applets and applications.

At Course Completion

- Create and explain project structure in Eclipse

- Work with classes, methods, statements, and class attributes
- Correct syntax and logic errors using the debugging tools in Eclipse
- Work with Java primitive datatypes and Java data classes
- Apply various levels of visibility to classes, subclasses, packages, and instances
- Code three types of loops, various conditional statements, use case statements
- Work with Java exceptions
- Use interfaces and polymorphism to create decoupled objects
- Apply basic design patterns to create well structured code
- Read and write to a file
- Use simple JDBC to manipulate a database

Outline

Module 1 Essential skills

- An introduction to Java
- How to write your first Java applications
- How to work with the primitive data types
- How to code control statements
- How to code methods, handle exceptions, and validate data
- How to test, debug, and deploy an application

Module 2 Object-oriented programming

- How to define and use classes
- How to work with inheritance
- How to define and use interfaces
- More object-oriented programming skills

Module 3 More essential skills

- How to work with arrays
- How to work with collections and generics
- How to work with strings
- How to work with dates and times
- How to work with file I/O
- How to work with exceptions

Module 4 GUI programming

- How to get started with JavaFX
- How to get started with Swing
- More Swing controls

Module 5 Database programming

- An introduction to databases with SQLite
- How to use JDBC to work with a database

Module 6 Advanced skills

- How to work with lambda expressions and streams
- How to work with threads

Prerequisites

Students taking this course must be able to operate a PC and have a basic understanding of such programming concepts as simple variables, sequence of code statements, looping, decisions (e.g. if statement), directory navigation, and files. Object oriented programming experience is *not* required for this course nor is web development.

Course Schedule

Date	Time	Price	Options
05/18/2026	08:00 AM - 04:00 PM CT	2,995.00	Buy Now Enroll

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FAQ

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Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

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What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.