

# COURSE OUTLINE

## Java SE 8: Programming

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Day(s)	Professional	Oracle	In Class	N/A

### Course Overview

This five day Java SE 8 Programming training covers the core language features and Application Programming Interfaces (API) you will use to design object-oriented applications with Java Standard Edition 8 (Java SE 8) Platform. You can use this course to further develop your skills with the Java language and prepare for the Oracle Certified Professional, Java SE 8 Programmer Exam.

### Prerequisite

Before attending this course, Oracle recommends that students attend the following course:

- *D83527GC10: Java SE 8 Fundamentals*

### Audience

Java Developers, Developers, Java EE Developers

### At Course Completion

After completing this course, students will be able to:

- Create Java technology applications with the latest JDK Technology
- Develop your object-oriented skills
- Identify good practices in the use of the language to create robust Java application
- Use Lambda expressions in Java applications
- Store and manipulate data using collections
- Manipulate files, directories and file systems
- Connect to databases using standard SQL queries through JDBC
- Create high-performance multi-threaded applications

### Topics

**Module 1: Introduction**

**Module 2: Java Syntax and Class Review**

**Module 3: Encapsulation and Subclassing**

**Module 4: Overriding Methods, Polymorphism, and Static Classes**

**Module 5: Abstract and Nested Classes**

**Module 6: Interfaces and Lambda Expressions**

**Module 7: Generics and Collections**

**Module 8: Collections Streams, and Filters**

**Module 9: Lambda Built-in Functional Interfaces**

**Module 10: Lambda Operations**

**Module 11: Exceptions and**

**Assertions Module 12: Java**

**Date/Time API Module 13: Java**

**I/O Fundamentals Module 14:**

**Java File I/O**

**Module 15: Concurrency**

**Module 16: The Fork-Join Framework**

**Module 17: Parallel Streams Lesson 18:**

**Building Database Applications with  
JDBC**