

# OJAV-3 - JAVA SE: PROGRAMMING II

Categoria: **Java**

## INFORMAZIONI SUL CORSO



**Durata:**  
5 Giorni



**Categoria:**  
Java



**Qualifica Istruttore:**  
Oracle Certified  
Professional



**Dedicato a:**  
Sviluppatore



**Produttore:**  
Oracle

## OBIETTIVI

- 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
- Use Lambda Expression concurrency features
- Apply modular programming practices and services to applications
- Create high-performing multi-threaded applications

## PREREQUISITI

### Required Prerequisites

- Java SE: Programming I Ed 1

## CONTENUTI

### Functional Programming

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

### Modular Programming

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

### **Streams and Parallel Streams**

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

### **Java API Programming and Secure Coding Concepts**

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

### **Collections and Generics**

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

### **Exception Handling and Assertions**

- Exceptions
- Error handling
- Assertions

## **INFO**

**Materiale didattico:** Materiale didattico ufficiale Oracle in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)