



## JAVA-FU - Java SE 8 Fundamentals

Oracle - Java - Sviluppo

Durata:

**5 Giorni**

Lingue:

**Italiano**

Certificazione:

**Oracle Certified Associate (OCA) Java SE 8 Programmer**

## Descrizione del corso

This Java SE 8 Fundamentals training introduces you to object-oriented programming using the Java language. Through hands-on exercises, you'll begin to build a baseline of knowledge to propel your career in development. At the end of the course, participants will be able to take the 'Java SE 8 Programmer I'(1Z0-808) exam, which allows to obtain the Oracle Certified Associate certification.

## Programma

1. What Is a Java Program?
  - Introduction to Computer Programs
  - Key Features of the Java Language
  - The Java Technology and Development Environment
  - Running/testing a Java program
2. Creating a Java Main Class
  - Java Classes
  - The main Method
3. Data In the Cart
  - Introducing variables
  - Working with Strings
  - Working with numbers
  - Manipulating numeric data
4. Managing Multiple Items

### ITCore Group

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- Working with Conditions
- Working with a List of Items
- Processing a list of items
- 5. Describing Objects and Classes
  - Working with objects and classes
  - Defining fields and methods
  - Declaring, Instantiating, and Initializing Objects
  - Working with Object References
  - Doing more with Arrays
  - Introducing the NetBeans IDE
  - Introducing the Soccer League Use Case
- 6. Manipulating and Formatting the Data in Your Program
  - Using the String Class
  - Using the Java API Docs
  - Using the StringBuilder Class
  - More about primitive data types
  - The remaining numeric operators
  - Promoting and casting variables
- 7. Creating and Using Methods
  - Using methods
  - Method arguments and return values
  - Static methods and variables
  - How Arguments are Passed to a Method
  - Overloading a method
- 8. Using Encapsulation
  - Access Control
  - Encapsulation
  - Overloading constructors
- 9. More on Conditionals
  - Relational and conditional operators
  - More ways to use if/else constructs
  - Using Switch Statements
  - Using the NetBeans Debugger
- 10. More on Arrays and Loops
  - Working with Dates
  - Parsing the args Array
  - Two-dimensional Arrays

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- Alternate Looping Constructs
  - Nesting Loops
  - The ArrayList class
11. Using Inheritance
- Overview of inheritance
  - Working with subclasses and superclasses
  - Overriding methods in the superclass
  - Introducing polymorphism
  - Creating and extending abstract classes
12. Using Interfaces
- Polymorphism in the JDK foundation classes
  - Using Interfaces
  - Using the List Interface
  - Introducing Lambda expressions
13. Handling Exceptions
- Handling Exceptions: An overview
  - Propagation of exceptions
  - Catching and throwing exceptions
  - Handling multiple exceptions and errors

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