JAVA-FU - Java SE 8 Fundamentals

Oracle - Java - Sviluppo

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**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
• Working with Conditions

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- 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
- 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