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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

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- 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