



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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