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## Java SE: Programming I (D102470)

**ID** D102470 **Price** 2,390.— €excl. VAT **Duration** 5 days

### Who should attend

- System Analysts
- Architect
- Java Developers
- Technical Consultant

### Prerequisites

#### Suggested Prerequisites

- Familiarity with general computer programming concepts and techniques
- Experience with another programming language

### Course Objectives

- Create simple Java classes and use object references to access fields and methods in a class
- Demonstrate polymorphism by implementing a Java interface
- Handle a checked exception in a Java application
- Use a Predicate Lambda expression as the argument to a method
- Define and implement a simple class hierarchy that supports application requirements
- Write Java code that uses variables, arrays, conditional and loop constructs to achieve program objectives
- Identify modular programming principles
- Access and create static fields and methods
- Encapsulate a class using access modifiers and overloaded constructors
- Manipulate numeric, text, and string data using appropriate Java operators
- Set environment variables to allow the Java compiler and runtime executables to function properly

### Course Content

- What is a Java Program
- Creating a Java Main class
- Data in the Cart
- Managing Multiple Items

- Describing Objects and Classes
- Manipulating and Formatting the Data in Your Program
- Creating and Using Methods
- Using Encapsulation
- More on Conditionals
- More on Arrays and Loops
- Using Inheritance
- Using Interfaces
- Handling Exceptions
- Deploying and Maintaining the Soccer Application
- Understanding Modules
- JShell

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