

Szkolenie: Oracle  
Java SE 7 Fundamentals

FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	4950 PLN NETTO*	5 dni
Stacjonarne	Tablet CTAB	5550 PLN NETTO*	5 dni
Metoda dlearning	Cyfrowe	4950 PLN NETTO*	5 dni
Metoda dlearning	Tablet CTAB	4950 PLN NETTO*	5 dni

\* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

## LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00

Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

## Cel szkolenia:

This **Java SE 7 Fundamentals** training teaches students with little or no programming experience to begin to learn programming using the Java programming language. It explores the significance of object-oriented programming, the keywords and constructs of the Java programming language and the steps required to create simple Java technology programs.

## Plan szkolenia:

- Introducing the Java Technology
  - Relating Java with other languages
  - Showing how to download, install, and configure the Java environment on a Windows system.
  - Describing the various Java technologies such as Java EE, JavaME, Embedded Java SE
  - Describing key features of the technology and the advantages of using Java
  - Using an Integrated Development Environment (IDE)
- Thinking in Objects
  - Defining the problem domain
  - Identifying objects and recognizing the criteria for defining objects
- Introducing the Java Language
  - Defining classes
  - Identifying the components of a class

- Creating and using a test class
- Compiling and executing a test program
- Working with Primitive Variables
  - Declaring and initializing field variables
  - Describing primitive data types such as integral, floating point, textual, and logical
  - Declaring variables and assigning values
  - Using constants
  - Using arithmetic operators to modify values
- Working with Objects
  - Declaring and initializing objects
  - Storing objects in memory
  - Using object references to manipulate data
  - Using JSE javadocs to look up the methods of a class
  - Working with String and StringBuilder objects
- Using operators and decision constructs
  - Using relational and conditional operators
  - Testing equality between strings
  - Evaluating different conditions in a program and determining the algorithm
  - Creating if and if/else constructs
  - Nesting and chaining conditional statements
  - Using a switch statement
- Creating and Using Arrays
  - Declaring, instantiating, and initializing a one-dimensional Array
  - Declaring, instantiating, and initializing a two-dimensional Array
  - Using a for loop to process an Array
  - Creating and initializing an ArrayList
  - Using the import statement to work with existing Java APIs
  - Accessing a value in an Array or and ArrayList
  - Using the args Array
- Using Loop Constructs
  - Creating while loops and nested while loops
  - Developing a for loop
  - Using ArrayLists with for loops
  - Developing a do while loop
  - Understanding variable scope
- Working with Methods and Method Overloading

- Creating and Invoking a Method
- Passing arguments and returning values
- Creating static methods and variables
- Using modifiers
- Overloading a method
- Using Encapsulation and Constructors
  - Creating constructors
  - Implementing encapsulation
- Introducing Advanced Object Oriented Concepts
  - Using inheritance
  - Using types of polymorphism such as overloading, overriding, and dynamic binding
  - Working with superclasses and subclasses
  - Adding abstraction to your analysis and design
  - Understanding the purpose of Java interfaces
  - Creating and implementing a Java interface
- Handling Errors
  - Understanding the different kinds of errors that can occur and how they are handled in Java
  - Understanding the different kinds of Exceptions in Java
  - Using Javadocs to research the Exceptions thrown by the methods of foundation classes
  - Writing code to handle Exceptions
- The Big Picture
  - Creating packages and JAR files for deployment using java
  - Two and three tier architectures
  - Looking at some Java applications examples

## Poziom trudności



## Certyfikaty:

Uczestnicy szkoleń otrzymają zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle

## Prowadzący:

Autoryzowany wykładowca Oracle.