

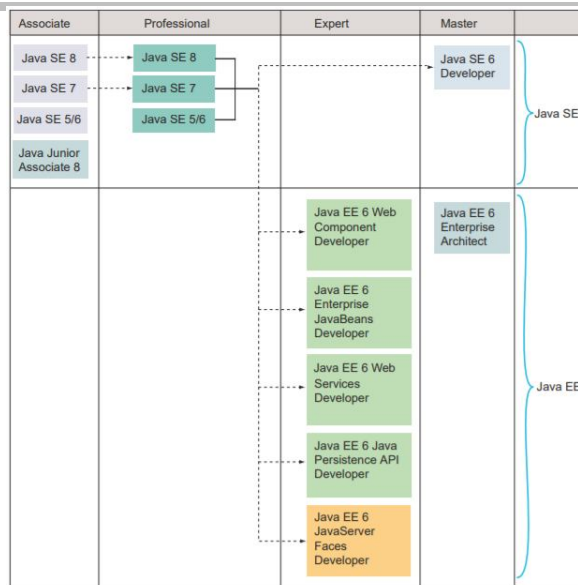
## Chapitre 0

# Présentation de l'examen OCA Java SE 8 Programmer I 1Z0-808



ORACLE

## Java Certification Roadmap



M. Romdhani,

Increasing difficulty level →

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## Java SE 8 Programmer I, Exam Information

■ **Exam Number:** 1Z0-808/ **Exam Title:** Java SE 8 Programmer I

### Java SE 8 Programmer I | 1Z0-808

#### Exam Details

<b>Exam Title:</b>	Java SE 8 Programmer I	<b>Duration:</b>	150
<b>Exam Number:</b>	1Z0-808	<b>Number of Questions:</b>	70
<b>Exam Price:</b>	€212,00 <a href="#">More on exam pricing</a>	<b>Passing Score:</b>	65%
<b>Format:</b>	Multiple Choice	<b>Validated Against:</b>	This exam has been written for the Java SE 8 release.

[https://education.oracle.com/java-se-8-programmer-i/pexam\\_1Z0-808](https://education.oracle.com/java-se-8-programmer-i/pexam_1Z0-808)

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## Exam Topics

### ■ Java Basics

- Define the scope of variables
- Define the structure of a Java class
- Create executable Java applications with a main method; run a Java program from the command line
- Import other Java packages to make them accessible in your code
- Features and components of Java such as: platform independence, object orientation, encapsulation, etc.

### ■ Working With Java Data Types

- Declare and initialize variables (including casting of primitive data types)
- Differentiate between object reference variables and primitive variables
- Know how to read or write to object fields
- Explain an Object's Lifecycle (creation, "dereference by reassignment" and garbage collection)
- Develop code that uses wrapper classes such as Boolean, Double, and Integer

### ■ Using Operators and Decision Constructs

- Use Java operators; use parentheses to override operator precedence
- Test equality between Strings and other objects using == and equals ()
- Create if and if/else and ternary constructs
- Use a switch statement

### ■ Creating and Using Arrays

- Declare, instantiate, initialize and use a one-dimensional array
- Declare, instantiate, initialize and use multi-dimensional arrays

### ■ Using Loop Constructs

- Create and use while loops
- Create and use for loops including the enhanced for loop
- Create and use do/while loops/ Use break and continue

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## Exam Topics (Cont'd)

### ■ Working with Methods and Encapsulation

- Create methods with arguments and return values; including overloaded methods
- Apply the static keyword to methods and fields
- Create and overload constructors; differentiate between default and user defined constructors
- Apply access modifiers
- Apply encapsulation principles to a class
- Determine the effect upon object references and primitive values when they are passed into methods

### ■ Working with Inheritance

- Describe inheritance and its benefits
- Develop code that makes use of polymorphism; develop code that overrides methods
- Use super and this to access objects and constructors
- Use abstract classes and interfaces

### ■ Handling Exceptions

- Differentiate among checked exceptions, unchecked exceptions, and Errors
- Create a try-catch block and determine how exceptions alter normal program flow
- Describe the advantages of Exception handling
- Create and invoke a method that throws an exception
- Recognize common exception

### ■ Working with Selected classes from the Java API

- Manipulate data using the StringBuilder class and its methods
- Create and manipulate Strings
- Create and manipulate calendar data using classes from java.time.LocalDate, java.time.LocalDateTime, java.time.LocalTime, java.time.format.DateTimeFormatter, java.time.Period
- Declare and use an ArrayList of a given type
- Write a simple Lambda expression that consumes a Lambda Predicate expression

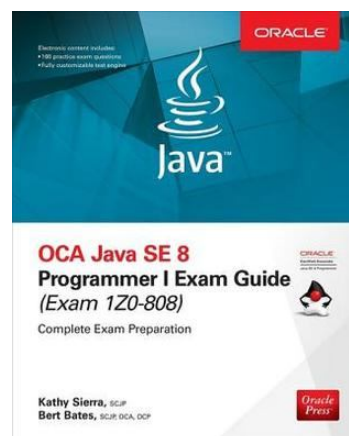
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## Plan du cours

### ■ Le cours est basé sur l'ouvrage de Kathy Sierra et Bert Bates (publié en en 2017) :

1. **Declarations and Access Control**
2. **Object Orientation**
3. **Assignments**
4. **Operators**
5. **Flow Control and Exceptions**
6. **Working with Strings, Arrays, and ArrayLists**



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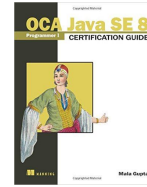
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## Ouvrages recommandés

- **OCA Java SE 8 Programmer I Certification Guide**

**Mala Gupta**

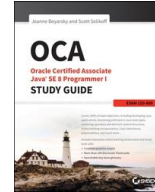
Manning Publications 2016



- **OCA: Oracle Certified Associate Java SE 8 Programmer I Study Guide: Exam 1Z0-808**

**Jeanne Boyarsky, Scott Selikoff**

SYBEX 2014



- **OCA / OCP Java SE 8 Programmer - Practice Tests**

**Jeanne Boyarsky, Scott Selikoff**

SYBEX 2017



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