

# Java SE 11 Programmer I | 1Z0-819

## Nro. Horas: 54

Este es un taller de preparación para la certificación Java SE 11 Developer de Oracle. Este examen tiene el código 1Z0-819, costa de **50 preguntas**, una duración de **90 minutos** y se necesita mínimo un **68% de aprobación**. Es de múltiple elección.

Exam 90 MINUTES

**Java SE 11 Developer 1Z0-819**

Exam Price: S/. 908 | Duration: 90 Minutes | Passing Score: 68% | [Exam Voucher](#)

## TOPICOS

Esos son los tópicos que se estudiarán en el taller:

### Working with Java data types

- › Use primitives and wrapper classes, including, operators, parentheses, type promotion and casting
- › Handle text using String and StringBuilder classes
- › Use local variable type inference, including as lambda parameters

### Java Object-Oriented Approach

- › Declare and instantiate Java objects including nested class objects, and explain objects' lifecycles (including creation, dereferencing by reassignment, and garbage collection)
- › Define and use fields and methods, including instance, static and overloaded methods
- › Initialize objects and their members using instance and static initialiser statements and constructors
- › Understand variable scopes, apply encapsulation and make objects immutable
- › Create and use subclasses and superclasses, including abstract classes
- › Utilize polymorphism and casting to call methods, differentiate object type versus reference type
- › Create and use interfaces, identify functional interfaces, and utilize private, static, and default methods
- › Create and use enumerations

### Working with Arrays and Collections

- › Use generics, including wildcards
- › Use a Java array and List, Set, Map and Deque collections, including convenience methods
- › Sort collections and arrays using Comparator and Comparable interfaces

### Java Platform Module System

- › Deploy and execute modular applications, including automatic modules
- › Declare, use, and expose modules, including the use of services

### Controlling Program Flow

- › Create and use loops, if/else, and switch statements

### Exception Handling

- › Handle exceptions using try/catch/finally clauses, try-with-resource, and multi-catch statements
- › Create and use custom exceptions

### Working with Streams and Lambda expressions

- › Implement functional interfaces using lambda expressions, including interfaces from the java.util.function package
- › Use Java Streams to filter, transform and process data
- › Perform decomposition and reduction, including grouping and partitioning on sequential and parallel streams

### Concurrency

- › Create worker threads using Runnable and Callable, and manage concurrency using an ExecutorService and java.util.concurrent API
- › Develop thread-safe code, using different locking mechanisms and java.util.concurrent API

### Secure Coding in Java SE Application

- › Develop code that mitigates security threats such as denial of service, code injection, input validation and ensure data integrity
- › Secure resource access including filesystems, manage policies and execute privileged code

### Localization

- › Implement Localization using Locale, resource bundles, and Java APIs to parse and format messages, dates, and numbers

#### Java I/O API

- Read and write console and file data using I/O Streams
- Implement serialization and deserialization techniques on Java objects
- Handle file system objects using java.nio.file API

#### Database Applications with JDBC

- Connect to and perform database SQL operations, process query results using JDBC API

#### Annotations

- Create, apply, and process annotations

#### Prerrequisitos:

- Conocimientos de Java básico.

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