

CERTIFICACIÓN PROGRAMADOR JAVA II 1Z0-819

SOMOS Y FORMAMOS EXPERTOS EN T.I.



Metodología

100% PRACTICO



Duración

25 HRS.

ACERCA DEL WORKSHOP

OBJETIVOS PRINCIPALES

- Obtienes la preparación para la certificación OCPJP
- Obtienes acceso a más de 400 preguntas similares al examen oficial de certificación

OBJETIVOS SECUNDARIOS

- Conoces las nuevas características del lenguaje con ejemplos prácticos

PREREQUISITOS

- Haber cursado el primer módulo Certificación Programador Java I 1Z0-819
 - Experiencia de 1 año programando con Java o haber cursado nuestro [Diplomado Java Empresarial](#).

[¿Cuál es mi nivel en programación? clic aquí](#)

¡NUNCA DEJES DE APRENDER!

1. Java Fundamentals

- 1.1 Create and use final classes
- 1.2 Create and use inner, nested and anonymous classes
- 1.3 Create and use enumerations

2. Exception Handling and Assertions

- 2.1 Use try-with-resources construct
- 2.2 Create and use custom exception classes
- 2.3 Test invariants by using assertions

3. Java Interfaces

- 3.1 Create and use interfaces with default methods
- 3.2 Create and use interfaces with private methods

4. Generics and Collections

- 4.1 Use wrapper classes, auto-boxing and auto-unboxing
- 4.2 Create and use generic classes, methods with diamond notation and wildcards
- 4.3 Describe Collections Framework and use key collection interfaces
- 4.4 Use Comparator and Comparable interfaces
- 4.5 Create and use convenience methods for collections

5. Functional Interface and Lambda Expressions

- 5.1 Define and write functional interfaces
- 5.2 Create and use lambda expressions including statement lambdas, local-variable for lambda parameters

6. Java Stream API

- 6.1 Describe the Stream interface and pipelines
- 6.2 Use lambda expressions and method references

7. Built-in Functional Interfaces

- 7.1 Use interfaces from java.util.function package
- 7.2 Use core functional interfaces including Predicate, Consumer, Function and Supplier
- 7.3 Use primitive and binary variations of base interfaces of java.util.function package

8. Lambda Operations on Streams

- 8.1 Extract stream data using map, peek and flatMap methods
- 8.2 Search stream data using search findFirst, findAny, anyMatch, allMatch and noneMatch methods
- 8.3 Use Optional class
- 8.4 Perform calculations using count, max, min, average and sum stream operations
- 8.5 Sort a collection using lambda expressions
- 8.6 Use Collectors with streams, including the groupingBy and partitioningBy operation

9. Migration to a Modular Application

- 9.1 Migrate the application developed using a Java version prior to SE 9 to SE 11 including top-down and bottom-up migration, splitting a Java SE 8 application into modules for migration
- 9.2 Use jdeps to determine dependencies and identify ways to address the cyclic dependencies

10. Concurrency

- 10.1 Create worker threads using Runnable, Callable and use an ExecutorService to concurrently execute tasks
- 10.2 Use java.util.concurrent collections and classes including CyclicBarrier and CopyOnWriteArrayList
- 10.3 Write thread-safe code
- 10.4 Identify threading problems such as deadlocks and livelocks

11. Services in a Modular Application

- 11.1 Describe the components of Services including directives
- 11.2 Design a service type, load services using ServiceLoader, check for dependencies of the services including consumer and provider modules

12. I/O (Fundamentals and NIO2)

- 12.1 Read data from and write console and file data using I/O Streams
- 12.2 Use I/O Streams to read and write files
- 12.3 Read and write objects by using serialization
- 12.4 Use Path interface to operate on file and directory paths
- 12.5 Use Files class to check, delete, copy or move a file or directory
- 12.6 Use Stream API with Files

13. Secure Coding in Java SE Application

- 13.1 Prevent Denial of Service in Java applications
- 13.2 Secure confidential information in Java application
- 13.3 Implement Data integrity guidelines- injections and inclusion and input validation
- 13.4 Prevent external attack of the code by limiting Accessibility and Extensibility, properly handling input validation, and mutability
- 13.5 Securely constructing sensitive objects
- 13.6 Secure Serialization and Deserialization

14. Database Applications with JDBC

- 14.1 Connect to databases using JDBC URLs and DriverManager
- 14.2 Use PreparedStatement to perform CRUD operations
- 14.3 Use PreparedStatement and CallableStatement APIs to perform database operations

15. Localization

- 15.1 Use Locale class
- 15.2 Use resource bundles
- 15.3 Format messages, dates, and numbers with Java

16. Annotations

- 16.1 Describe the purpose of annotations and typical usage patterns
- 16.2 Apply annotations to classes and methods
- 16.3 Describe commonly used annotations in the JDK
- 16.4 Declare custom annotations

CERTIFICADO DIGITAL

Obtén una constancia que avala tu preparación, si cumples con la asistencia a tu capacitación y elaboras el proyecto final de cada curso, bootcamp o diplomado.

Registrado por la Secretaría del Trabajo y Previsión Social (México).



¡Te esperamos!

 55 5211 6931

 +52 55 6186 8835

 TecGurusNet