Publication date : 05/04/2024

Course : Oracle Certified Professional, Java SE 17 Developer, certification preparation

Practical course - 4d - 28h00 - Ref. OCJ
Price : 2200 € E.T.

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One of the aims of this course is to give candidates the skills they need to succeed in the Oracle Java certification exam. It will also enable you to update your knowledge of Java, focusing on the finer points of the basic language and the main libraries.

Teaching objectives

At the end of the training, the participant will be able to:

- Programming with abstract classes and methods
- Master query creation and read database results
- Managing date- and time-related events
- Using Java APIs

Intended audience

Application developers.

Prerequisites

A good command of the Java language is imperative.

Certification

This training includes the voucher needed to register and take the 1Z0-819 certification exam with ORACLE's partner, Pearson Vue.

Practical details

Hands-on work

Theoretical sessions are followed by mock tests to prepare for the exam.

Course schedule

PARTICIPANTS

Application developers.

PREREQUISITES

A good command of the Java language is imperative.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

1 The language

- Primitive types and envelope classes.
- Enumerations.
- Statements, expressions, instructions.
- Blocks, conditional structures and loops.
- Modifiers and operators.
- Exception handling.
- Switch expressions.

Hands-on work
Mock test and answer key.

2 Object concepts

- Classes and instances.
- Inheritance, polymorphism, encapsulation.
- Hierarchy control with sealed classes.
- Overloading and redefining methods.
- Type comparison, casting.
- hashCode(), equals(), finalize() and toString().
- Create immutable classes with records.

Hands-on work
Mock test and answer key.

3 Annotations

- Apply annotations.
- Define your own annotations.
- Handle annotations at compile time or runtime.

Hands-on work
Mock test and answer sheet.

4 Utility classes

- String, StringBuilder and StringBuffer.
- Local dates and times. Time zones and daylight saving times.
- Byte and character streams. Filters.
- Create, delete and manipulate files. API NIO 2.
- API Collections and genericity. Sorting with Comparable and Comparator.
- Constrained parameterized types. Use of wildcards.

Hands-on work
Mock test and answer key.

5 Java Platform Module System

- The value of modules.
- The syntax of module-info.java.
- Compile and run a modular application.
- Works with older libraries.

Hands-on work
Mock test and answer sheet.

TERMS AND DEADLINES
Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES
Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 Concurrent programming

- Processes and threads.
- Control thread execution.
- The high-level java.util.concurrent.

Hands-on work
Mock test and answer sheet.

7 Functional programming

- Lambda expressions.
- Method references.
- Functional interfaces.
- API Stream.

Hands-on work
Mock test and answer key.

8 JDBC (Java DataBase Connectivity)

- JDBC architecture.
- Perform database queries.
- Use stored procedures.
- Transaction management.

Hands-on work
Mock test and answer key.

Dates and locations

REMOTE CLASS
2026 : 24 Mar., 16 June, 29 Sep., 15 Dec.

PARIS LA DÉFENSE
2026 : 16 June, 29 Sep., 15 Dec.