

uCertify

Course Outline

Oracle Java SE 7 Programmer II



24 May 2020



Lesson



Practice test

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Here's what you get

Features

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1. Course Objective

The book covers all of the exam topics for Java SE 7 Programmer II (1Z0-804 exam). The chapters and sections in this book map one-to-one to the exam objectives and subtopics. This one-to-one mapping between chapters and the exam objectives ensures that we cover only the topics to the required breadth and depth no more, no less. There are many features in this book designed to present the content in a smooth, example-driven flow to improve your reading and study experience. For instance, the chapters provide numerous programming and real-world examples to help you internalize each of the presented concepts.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

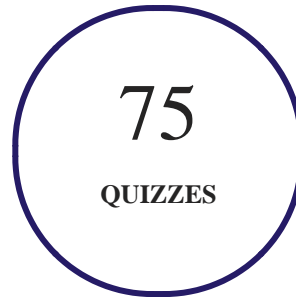
3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

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EXERCISES

4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



5. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

6. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

7. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

8. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 5 years:

- **2014**
 1. Best Postsecondary Learning Solution

- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution
 3. Best Student Assessment Solution
 4. Best Postsecondary Learning Solution
 5. Best Career and Workforce Readiness Solution
 6. Best Instructional Solution in Other Curriculum Areas
 7. Best Corporate Learning/Workforce Development Solution

- **2016**
 1. Best Virtual Learning Solution
 2. Best Education Cloud-based Solution
 3. Best College and Career Readiness Solution

4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

9. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: The OCPJP 7 Exam: FAQ

- Oracle Java Certifications: Overview

- The OCPJP 7 Exam
- Taking the OCPJP 7 Exam

Chapter 2: Java Class Design

- Essentials of OOP
- Class Fundamentals
- Overloading
- Inheritance
- Java Packages
- Summary

Chapter 3: Advanced Class Design

- Abstract Classes
- Using the final Keyword
- Using the static Keyword
- Flavors of Nested Classes
- Enum Data Types
- Summary

Chapter 4: Object-Oriented Design Principles

- Interfaces
- Object Composition
- Design Patterns
- Summary

Chapter 5: Generics and Collections

- Generics
- The Collections Framework
- Summary

Chapter 6: String Processing

- Processing Strings
- Regular Expressions
- String Formatting
- Summary

Chapter 7: Java I/O Fundamentals

- Reading and Writing from Console
- Using Streams to Read and Write Files
- Points to Remember
- Summary

Chapter 8: Java File I/O (NIO.2)

- A Quick History of I/O APIs
- Using the Path Interface
- Using the Files Class
- Walking a File Tree
- Finding a File
- Watching a Directory for Changes

- Points to Remember
- Summary

Chapter 9: Building Database Applications with JDBC

- Introduction to JDBC
- Connecting to a Database Using a JDBC Driver
- Querying and Updating the Database
- Performing Transactions
- Summary

Chapter 10: Exceptions and Assertions

- Introduction to Exception Handling
- Try-with-Resources
- Exception Types
- Custom Exceptions
- Assertions
- Summary

Chapter 11: Localization

- Introduction
- Locales
- Resource Bundles
- Loading a Resource Bundle
- Formatting for Local Culture
- Points to Remember
- Summary

Chapter 12: Threads

- Introduction to Concurrent Programming
- The States of a Thread
- Concurrent Access Problems
- Summary

Chapter 13: Concurrency

- Using `java.util.concurrent` Collections
- Apply Atomic Variables and Locks
- Use Executors and ThreadPools

- Use the Parallel Fork/Join Framework
- Points to Remember
- Summary

Chapter 14: OCPJP 7 Quick Refresher

- Quick Refresher

Chapter 15: APPENDIX A: Exam Topics

- OCPJP7 Exam (1Z0-804 A.k.a. Java SE 7 Programmer II) Topics
- OCPJP 7 Exam (1Z0-805, A.k.a. Upgrade To Java SE 7 Programmer) Topics

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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VIDEOS

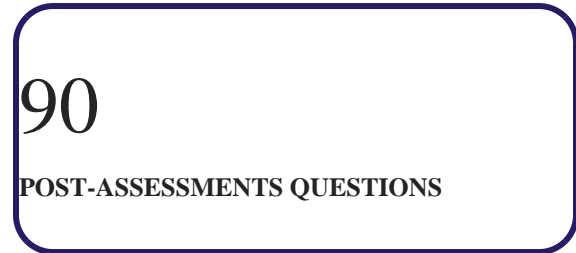
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HOURS

10. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are

designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

Here's what you get



Features

Full Remediation

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Learn, Test and Review Mode

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

11. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

Have Any Query? We Are Happy To Help!

GET IN TOUCH:

■ Contact No

■ Email: sales@ucertify.com

■ www.uCertify.com