MissionOCAJ8

Course Details

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Introduction

MissionOCAJ8 is your coach to prepare for the 'Oracle Certified Associate Java SE 8 Programmer I' certification exam. This course will equip you with the techniques to make a successful jump into the category of certified Java professionals and be present as a safety net to save you from any hard falls.

Developed by Mala Gupta, author of Manning's 'OCA Java SE 8 Programmer I Certification Guide', the course includes assessed hands-on project and exercises, which covers all exam objectives. It also includes multiple quizzes, sample exam questions, images, and explanations to reinforce key concepts.

Target Audience

This course is for students or Java programmers, who are comfortable with the basics of the Java language.

Entry criteria

- You should be comfortable with basic Object Oriented Programming concepts and with writing basic Java classes.
- In terms of formal education, we do not enforce strict criteria, but we recommend this course to those who have completed their high school (12 years equivalent of education in the respective countries).
- You should have fair knowledge of English language, since the medium of instruction is currently in English.

OCA Version

This course is offered for Java SE 8 Programmer I (exam number 1Z0-808)-Java ver 8.

Course Duration

The course duration is 12 weeks with mentor support. You are expected to put in approximately 15 hours per week in study.

Number of study hours required per week depends on individual learning curves and backgrounds. The course duration is the period for which mentor support is provided. You can contact your course advisor to buy additional mentor support.

Course Objectives

● Complete coverage of all certification exam topics (https://education.oracle.com/pls/web_prod-plq-dad/db_pages.getpage?page_id=5001 &get_params=p_exam_id:1Z0-808).
● Know the exam topics inside out, using hands-on exercises and mini-projects.
● Familiarization with the exam - how to avoid built-in exam traps and pitfalls.

Courseware

We follow the following book for this course.
● Manning's 'OCA Java SE 8 Programmer I Certification Guide', by Mala Gupta (http://manning.com/gupta3/)

Course plan

Divided into 12 weeks, the course aims for structured exam preparation. You'll work with the book's chapters and the additional hands-on exercises and mini-projects.

Weekly calls:
To promote active participation, every week you'll connect with your mentor using audio or video conference calls, in a group of 5-10 participants to:

1. Share the fun - your 'aha' moments with the exam preparation during the week.
2. Share one sample exam question, written by you.
3. Ask queries.

Email support : You can connect with your mentor using the email id, shared by your course advisor, at the beginning of the course. For code related queries, we appreciate sending in relevant code and queries using email.

Week 1: Learn to drive, before you learn to appear for your driving test.
● Introduction to the course mentor.
● Hands-on experience with a sample project to assess your coding skills.
● Evaluation of sample project.
What you'll learn by the end of the week:
● How well you are placed with Java and its basic concepts.

Week 2: Java Basics - Self reading + hands-on exercises
What you'll learn by the end of the week:
● The structure of a Java class and source code file
● Executable Java applications

- Java packages
- Java access modifiers
- Non access modifiers

Week 3: Working with Java data types - Self reading + hands-on exercises
What you'll learn by the end of the week:
- Primitive data types
- Valid identifiers
- Assignment operators
- Arithmetic operators
- Relational operators
- Logical operators
- Wrapper classes

Week 4: Methods and encapsulation - Self reading + hands-on exercises
What you'll learn by the end of the week:
- Scope of variables
- Object's lifecycle
- Create methods with arguments and return values
- Create an overloaded method
- Constructors of a class
- Overloaded constructors
- Accessing object fields
- Applying encapsulation principles to a class
- Passing objects and primitives to methods

Week 5: Arrays and selected classes from Java API - Self reading + hands-on exercises
What you'll learn by the end of the week:
- The class String
- The class StringBuilder
- Arrays
- ArrayList
- Comparing objects for equality
- Date Time API

Week 6: Flow Control - Self reading + hands on mini-project
What you'll learn by the end of the week:
- if and if-else constructs
- switch statements
- for loops
- Enhanced for loops
- while and do-while loops
- Comparing loop constructs
- Loop statements (break and continue)

●   Labeled statements

Week 7: Working with inheritance - Self reading + hands-on exercises
What you'll learn by the end of the week:
●   Inheritance with interfaces and classes
●   Reference variable and object types
●   The need for casting
●   Using super and this to access objects and constructors
●   Polymorphism with classes
●   Interfaces-abstract, default and static methods
●   Introduction to functional style programming with lambdas

Week 8: Exception handling - Self reading + hands-on project
What you'll learn by the end of the week:
●   Why handle exceptions separately
●   Categories of exceptions
●   An exception is thrown
●   Checked exceptions
●   Runtime exceptions
●   Errors
●   Commonly occurring exceptions, categories, and classes

Week9: Mock exam 1
Week10: Mock exam 2
Week11: Mock exam 3
Week12: Mock exam 4

What you'll learn by the end of the week number 9, 10, 11 and 12:
●   How to time yourself to answer the real exam.
●   How to self analyze incorrect answers.
●   How to refresh and prepare notes for incorrect questions.
●   How to identify topics on which you repeatedly answer questions incorrectly.
●   How to modify any two exam questions and post for peers to answer.

Course Fee and Payment terms

Fee for MissionOCAJ8 course:

a) Option A : Full course fee - **299 US $** (mentor support of 3 months)
b) Option B : Pay-as-you-go - **109 US $/ month**

Additional mentor support fee: **109 US $/ month**

Payment can be made through Credit Card, Paypal or Electronic Fund transfer within 10 calendar days of start of course. A separate invoice shall be raised for this purpose with relevant details.

We encourage you to **use the 10-day period available for payment of fee as evaluation** period. Fee once paid will not be refunded under any circumstances.