





ÆON Credit Service Systems (Philippines) Inc.

# Oracle Associate Level Certification Java SE 8 Specific Exam Introduction

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# **OBJECTIVES**

#### This session aims to:

- Introduce the new basic features of Java SE 8 included in the Associate Level Certification
- Identify the correct syntax of a Lambda expression
- Introduce LocalDate, LocalTime, and LocalDateTime
- Differentiate class default access from interface default method





# OUTLINE

- Brief History of Java Certifications
- Syntax of Lambda Expressions
- Introduction to LocalDate, LocalTime, and LocalDateTime
- Interface Default methods





### SUN JAVA CERTIFICATION PATH (PREVIOUS)

Advanced Certification (Enterprise Architect)



**Specialty Level** 

Mobile Application, Web Services, Web Component, Business Component)



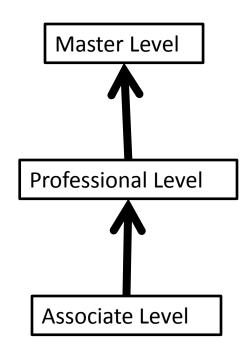
**Professional Level** 



Foundation Level (Associate)



## ORACLE JAVA CERTIFICATION PATH (CURRENT)







#### **EXAM COVERAGE**

- Java Basics
- Working with Java Data Types
- Using Operators and Decision Constructs
- Creating and Using Arrays
- Using Loop Constructs
- Working with Methods and Encapsulation
- Working with Inheritance
- Handling Exceptions
- Working with Selected classes from the Java API





#### LAMBDA EXPRESSION

#### **Long Format**

(String str) -> {return "1".equals(str);}

#### **Short-hand Format**

str -> "1".equals(str)





#### LAMBDA EXPRESSION WITH PREDICATE<T> INTERFACE

- standard functional interfaces included in JDK
- Predicate<T> has only one method that returns a boolean

```
interface Predicate<T> {
     boolean test(T t);
}
```



#### LAMBDA EXPRESSION WITH PREDICATE<T> INTERFACE



#### LAMBDA EXPRESSION WITH PREDICATE<T> INTERFACE

#### **Long Format**

countStringsContainsValue(textList, (String str) -> {returns str.contains("8"); });

#### **Short-hand Format**

countStringsContainsValue(textList, str -> str.contains("8"));





#### **JAVA SE 8 DATE AND TIME**

-From java.util package

Date now = new Date();

System.out.println(now); // Tue Jan 01 01:02:03 CST 2016





#### **JAVA SE 8 DATE AND TIME**

#### **Most Common Usage**

LocalDateTime now = LocalDateTime.now(); // The current date and time LocalDate.of(2012, Month.DECEMBER, 12); // from values LocalTime.of(17, 18); // Hour and minute LocalTime.parse("10:15:30"); // From a String

#### Getting the specific part of a LocalTime object:

LocalTime specificPartOfTime = time.truncatedTo(ChronoUnit.MINUTES);





#### **JAVA SE 8 DATE AND TIME**

#### // Instantiation

Period period = Period.of(3, 2, 1); // 3 years, 2 months, 1 day

#### // Example usage

LocalDate date = LocalDate.now(); date = date.plus(period);





#### **DEFAULT METHODS VS DEFAULT ACCESS MODIFIER**

#### **Access modifiers:**

- public
- protected
- default (no modifier specified)
- private

Access modifiers determines whether other classes can use a particular field or Invoke a particular method.





#### **DEFAULT METHODS VS DEFAULT ACCESS MODIFIER**

Default methods enable you to add new functionality to the interfaces of your ibraries and ensure binary compatibility with code written for older versions of those interfaces.



#### **DEFAULT METHODS**



#### **DEFAULT METHODS**



#### **DEFAULT METHODS**



# **QUESTIONS?**

