

### >> Course Overview

The Java SE 8 course is designed to provide preparation for the Oracle Certified Associate (OCA) exam. Throughout the course, students will learn about Java from the basics to string builder methods. They will spend a significant portion of the course learning about the basics of Java, data types, operators, arrays, loop constructs, encapsulation, inheritance, exceptions, and API.

### >> Course Outline by Module

<b>Module 1</b>	Introduction to Coding and Java
<b>Module 2</b>	Java Basics
<b>Module 3</b>	Working with Java Data Types
<b>Module 4</b>	Using Operators & Decision Constructs & Creating and Using Arrays
<b>Module 5</b>	Using Loop Constructs
<b>Module 6</b>	Working with Methods of Encapsulations
<b>Module 7</b>	Working with Inheritance
<b>Module 8</b>	Handling Exceptions
<b>Module 9</b>	Working with Selected classes from the Java API

### >> Course Elements



Video Instruction



Reflections



Interactives



Concept Checks



Reading



Quizzes and Exams



Projects



### >> Instructional Components

Pointful Education Courses are structured in a consistent, research-based format utilizing multiple pedagogical concepts such as Understanding by Design, Growth Mindset, and Video and Project-based learning. Through the use of these pedagogical concepts, Pointful Education maintains a consistent and engaging course structure that supports student-centered learning.

### >> Course Materials

This course requires specific external software. The purpose is to provide students with hands-on learning opportunities in which they gain experience working with the software related to the course. This will ensure students have the necessary experience and task-based practice required for success on the certification exam. Course Materials: Java SE 8