

Java Programmer

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The Java Platform, Standard Edition 8 learning paths provide novice and experienced Java Programmers and Application Developers with the skills and knowledge on how to get the most from the features and enhancements available with Java SE 8. The Java Programmer badge covers the essentials of the Java programming language and provides experience with several related technologies required for a career in software development. The badge includes two courses. The first course, Java Fundamentals, explores the language in detail, including program structure, variables and data types, object oriented programming, encapsulation and constructors. The second course, Java Programming, covers more advanced features of the Java programming language including Java Collections framework, multi-threaded applications, and Database applications with JDBC. This program prepares for the Oracle Certified Associate and Professional, Java SE 8 Programmer certification exams.

Exam 1Z0-808 Java SE 8 Programmer I → Oracle Certified Associate, Java SE 8 Programmer
Exam 1Z0-809 Java SE 8 Programmer II



Oracle Certified Professional Java SE 8 Programmer

Career Notes:

The demand for skilled Software Developers continues to grow and employment in this career category is projected to increase much faster than most other occupations in the coming years. Software Developers are detail-oriented and have excellent problem-solving and analytical abilities. Mobile and emerging technologies, and an increase in the demand for computer software, has dramatically impacted the increased demand for software developers.

1 U.S. Bureau Labor Statistics job projections, 2006-2016

Prerequisites:

Experience with object-oriented programming, familiarity with HTML, and database concepts required.

Requirements:

- **LSJ8001** Java Fundamentals
- **LSJ8002** Java Programming



Course Descriptions:

LSJ8001 Java Fundamentals (30 Hours)

Learn the significance of object-oriented programming and concepts such as inheritance, encapsulation and abstraction. Learn the keywords and constructs of the Java programming language and perform basic error handling for Java technology programs. Create Java classes containing arrays, loops and conditional constructs. Provides knowledge in Java programming language constructs and how to create Java technology applications. This course will prepare students for the Java SE 8 Programmer I (1Z0-808) certification exam which leads to the Oracle Certified Associate, Java SE 8 Programmer credential. Recommended preparation: LCT0190 or basic knowledge of HTML. Programming experience beneficial but not required.

LSJ8002 Java Programming (36 Hours)

Covers core Application Programming Interfaces (API) used to design object-oriented applications with Java. Create classes, extend abstract classes and learn how to program with interfaces. Develop applications that manipulate files, directories and file systems. Provides knowledge in how to use exceptions and the Collections framework, write database programs with JDBC and multi-threaded applications. The course will prepare students for the Java SE 8 Programmer II (1Z0-809) certification exam which leads to the Oracle Certified Professional, Java SE 8 Programmer credential. Recommended Preparation: LSJ8001 or the ability to create, compile and execute programs. Understanding of object-oriented principles, database concepts and familiarity with SQL syntax.