CIW Java Programming Series: Elective Offering Sun Certified Java Programmer Exam Preparation Guide (CCL03-CEJPEG-PR-107)

Sun Certified Java Programmer Exam Preparation Guide is a 18-hour course that reviews the objectives and topics addressed in the Sun Certified Programmer for the Java 2 Platform exam. This course can be taught as part of an instructor-led program or used as a self-study exam preparation guide. In this course, students will learn how to properly create Java source files, and define packages and all form of classes and interfaces. Students will learn the fundamentals of the Java language, including flow control structures, variable and method declarations, operators and assignments, and garbage collection. Students will also be introduced to threads and thread control, and to the java.awt package and the Collections API.

Topics

Java Language Fundamentals

Java Source Files Keywords Primitive Data Types The Java *main* Method Variable Initialization The Math Class Garbage Collection

Java Modifiers

Introduction to Java Modifiers Classes Methods Variables Static Initializers

Flow Control In Java

The *while, do,* and *for* Loops The *continue, break, if/else* and *switch* Statements Exceptions Throwing and Catching Exceptions

Operators and Assignments

Introduction to Expressions Unary, Arithmetic, Binary Shift, Comparison, Short-Circuit, Ternary and Assignment Operators

Object Orientation

Encapsulation Abstraction Method Overloading and Overriding Constructors Inner Classes Arrays

Threads Creating Threads Thread States Thread Synchronization

The java.awt Package Layout Managers Events

The Collections API Introduction to Collections The Collections API Using the Collections API

Target Audience

Internet application developers, database architects, middleware programmers, Java developers, and client/server developers.

Job Responsibilities

Develop n-tier database and legacy connectivity solutions for Web applications using Java, Java APIs, JDBC solutions, middleware tools, and distributed object models such as CORBA/ORB and IIOP.

Prerequisites

Students must have taken the CIW Java Programming Fundamentals course or have equivalent experience programming in Java.

Duration

18 hours