



Preparation Java SE 8 Fundamentals (D83527)

Overview

This Java SE 8 Fundamentals training introduces you to object-oriented programming using the Java language. Through hands-on exercises, you'll begin to build a baseline of knowledge to propel your career in development.

Learn To:

- Use Java programming language constructs to create a Java technology application.
 - Use decision and looping constructs and methods to dictate program flow.
 - Understand basic object oriented concepts such as inheritance, encapsulation, and abstraction.
 - Use and manipulate object references, and to write simple error handling code.
 - Use the new SE 8 `java.time` and `java.time.format` packages to format and print the local date and time.
 - Specify a data modification by passing a predicate lambda expression to the `Collections` class.
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Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Write Java code that uses variables, arrays, conditional and loop constructs
 - Manipulate primitive numeric data and string data using Java operators
 - Create Java classes and use object references
 - Access the fields and methods of an object
 - Manipulate text data using the methods of the String and String Builder classes
 - Use casting without losing precision or causing errors
 - Declare, override, and invoke methods
 - Access and create static fields and methods
 - Use classes from the java.time and java.time.format packages to format and print the local date and time
 - Encapsulate a class using access modifiers and overloaded constructors
 - Define and implement a simple class hierarchy
 - Demonstrate polymorphism by implementing a Java Interface
 - Use a Predicate Lambda expression as the argument to a method
 - Handle a checked exception in a Java application
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Content

- Module 1: What Is a Java Program?
 - Module 2: Creating a Java Main Class
 - Module 3: Data In the Cart
 - Module 4: Managing Multiple Items
 - Module 5: Describing Objects and Classes
 - Module 6: Manipulating and Formatting the Data in Your Program
 - Module 7: Creating and Using Methods
 - Module 8: Using Encapsulation
 - Module 9: More on Conditionals
 - Module 10: More on Arrays and Loops
 - Module 11: Using Inheritance
 - Module 12: Using Interfaces
 - Module 13: Handling Exceptions
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Audience

- Application Developers
 - System Administrator
 - Project Manager
 - Developer
 - Technical Consultant
 - Technical Administrator
 - Team Leader
 - Web Administrator
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