Introduction to Java 9

Category: Software Development & Programming | **Vendor:** Various

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This is a five-day, comprehensive, and hands-on training course geared for developers who have little or no prior working knowledge of object-oriented programming languages, such as those working on C, COBOL, 4GL, etc.

About This Course

This is a five-day, comprehensive, and hands-on training course geared for developers who have little or no prior working knowledge of object-oriented programming languages, such as those working on C, COBOL, 4GL, etc.

Who Should Attend

Programmers with little or no Object-Oriented background, such as C, COBOL, Mainframe, 4GL developers, etc.

Prerequisites & Entry Requirements

General Prerequisites:

Attendees should have a working knowledge of developing OO software applications.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Understand what OO programming is and what the advantages of OO are in today's world Work with objects, classes, and OO implementations Understand the basic concepts of OO such as encapsulation, inheritance, polymorphism, and abstraction Understand not only the fundamentals of the Java language, but also its importance, uses, strengths and weaknesses Understand the basics of the Java language and how it relates to OO programming and the Object Model Work with the Java 9 modular system (Project Jigsaw) Learn to use Java exception handling features Understand and use classes, inheritance and polymorphism Understand and use collections, generics, autoboxing, and enumerations Process large amount of data using Lambda expressions and the Stream API Use the JDBC API for database access Take advantage of the Java tooling that is available with the programming environment being used in the class

Detailed Course Outline

1 - JAVA: A FIRST LOOK

- The Java Platform
- Using the JDK
- The Eclipse Paradigm

2 - GETTING STARTED WITH JAVA

- Writing a Simple Class
- Adding Methods to the Class

3 - OO CONCEPTS

- Object-Oriented Programming
- Inheritance, Abstraction, and Polymorphism

4 - ESSENTIAL JAVA PROGRAMMING

- Language Statements
- Using Strings
- Specializing in a Subclass
- Fields and Variables
- Using Arrays
- Java Packages and Visibility

5 - OBJECT ORIENTED DEVELOPMENT

- Inheritance and Polymorphism
- Interfaces and Abstract Classes

6 - EXCEPTION HANDLING

- Introduction to exception handling
- Exceptions

7 - JAVA DEVELOPER'S TOOLBOX

- Utility Classes
- Formatting Strings

8 - ADVANCED JAVA PROGRAMMING

- Introduction to Generics
- Lambda Expressions and Functional Interfaces

9 - WORKING WITH COLLECTIONS

- The Collection API
- Using Collections

10 - STREAM API

- Streams
- Collectors

11 - THE JAVA MODULE SYSTEM (JIGSAW)

- Introduction to the Module System

12 - ACCESSING RESOURCES

- Java Data Access JDBC API
- Introduction to Annotations (optional)

Frequently Asked Questions

Q: What delivery options are available for Introduction to Java 9?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Introduction to Java 9 course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Java 9 training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Java 9?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Java 9. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Introduction to Java 9?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Java 9 training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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