Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Classroom

Course Overview

Migrating from Java 8 to Java 11 is a one day, fast paced workshop-style course designed to get you quickly up to speed with the skills and best practices required to transition your Java 8 applications to Java 11, taking advantage of Java 11's powerful features and capabilities. This immersive course will guide you through a series of key topics and skills, including updates from Project Coin, innovative String methods in Java 11, and local-variable type inference. You ll also delve into the powerful updates to collections and streams, ensuring you have a thorough understanding of the latest enhancements. The course is designed to empower you to make a seamless transition to Java 11, by providing an in-depth exploration of the Java Module System (Jigsaw). You'll learn the rationale behind Jigsaw, grasp the fundamentals of the module system, and discover how to define application modules, dependencies, and exports. With a focus on practical application, our hands-on labs will guide you through the process of migrating a Java 8 application to Java 11, replacing removed libraries, and overcoming common challenges. You'll leave the course armed with the skills required to confidently migrate your Java 8 applications to Java 11, leverage the latest language features and enhancements, and optimize your code for improved performance and maintainability

About This Course

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Who Should Attend

This is an intermediate- level Java programming course, designed for experienced Java 8 developers who wish to get up and running with Java 11 immediately

Learning Outcomes

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

This course is approximately 50% hands-on, combining expert lecture, real-world demonstrations and group discussions with machine-based practical programming labs and exercises. Our engaging instructors and mentors are highly experienced practitioners who bring years of current 'on-the-job' experience into every classroom. Working in a hands-on learning environment, guided by our expert team, you'll learn to:
Develop modular applications in Java
Migrate existing Java applications to the Java 11 platform
Improve implementations already using Java 8's Stream API by utilizing the methods new in Java 11
Understand how the implementation of the String class has been updated to decrease the memory footprint
Explore specific Java 11 features covered including: The Java Module System (project Jigsaw), Updated try-with-resources, Performance enhancements since Java 9, Updates to Collection and Stream API, Using the Local Variable Types, Updates made to the String API

Detailed Course Outline

Milling Project Coin

- Changes made to the language since Java 6
- Multi-catch
- Using effectively final variables in try-with-resources
- Suppressed exceptions
- Binary literals
- Reserved underscore
- Type inference in anonymous classes
- @SafeVargs (updates in Java 9)
- Default and static methods in interfaces
- Private methods in interfaces

Using Strings in Java 11

- Working with Strings
- Discuss the definition of whitespace in Java
- Introduce the new strip() methods of the String class
- The isBlank() and repeat() methods introduced in Java 11
- Using the lines() method to construct a Stream instance using a String
- Compact strings
- String deduplication

Local-Variable Type Inference

- Explain type inference
- Infering types of local variables
- The var reserved type name
- Benefits of using var
- Backward compatibilty

Collection and Stream Updates

- Factory methods for Immutable Collection types
- The takeWhile and dropWhile methods
- The Stream Iterate and ofNullable methods
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Why JigSaw

- Problems with Classpath
- Encapsulation and the public access modifier
- Application memory footprint
- Java 8s compact profile
- Using internal JDK APIs

Introduction to the Module System

- Introduce Project Jigsaw
- Classpath and Encapsulation
- The JDK internal APIs
- Java 9 Platform modules
- Defining application modules
- Define module dependencies
- Implicit dependencies
- Implied Readability
- Exporting packages

The Module Descriptor

- Define module requirements
- Explain qualified exports
- Open modules for reflection
- Use ServiceLoader
- The provides and uses keywords

Migrating an Application

- Migrating a java 8 application to Java 11
- Replacing libraries removed from the Java Standard Edition
- Explore the challenges Evening Review / Homework

Java 11: Removed Features and Options

- Provide an overview of tools and APIs removed
- Java EE modules are no longer available in Java 11

Java 9 Concurrency Updates

- Brief overview of Concurrency in Java
- Overview of CompletableFuture (Java 8)
- Subclassing the CompletableFuture
- The default Executor
- New Factory methods
- Dealing with time-outs

Additional Course Details

Nexus Humans Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133)?

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 2-day Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133)?

Yes, we provide corporate training, dedicated training, and closed classes for Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133). 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 Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133)?

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 Migrating from Java 8 to Java 11 | Java 11 New Features & Skills (TT2133) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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