

## What's new in Java 8? Certification Training

Java 8 training provides in-depth knowledge to the delegates about the functional interfaces, streams, lambda expressions and new Java 8 API. Java is a most popular programming language, and it is also a platform for developing the web enterprise, desktop and mobile applications.

### Objective

### Details

**Duration:** 2 Days

### Who is this course for

This course is designed for everyone, who desire to learn the new features of Java 8. Everyone who wishes to understand the art of functional programming and implement it with Java, can attend this training and enhance their programming skills.

## Course Content

### Introducing Java 8

- Quick Recap of Java,
- Drivers of Change in Java
- Effects of Big Data world and new frameworks favouring functional programming
- Behaviour Parameterization
- Anonymous Classes, Lambdas

### Introducing Lambdas

- Lambdas in Summary
- Some Lambda Examples
- Lambda Use Cases
- Functional Interfaces
- Lambda in Practice

### Working with Streams

- Introduction to Streams, Stream Basics in Java 8
- Java Collections Vs Streams, Different Stream Operations
- Stream Sources
- Creating and Using Collectors
- Reducing and Summarization of Streams
- Grouping and Data partitioning operations in Streams
- Introduction to Parallel Streams
- Using Parallel streams effectively
- About the Fork/Join
- Refactoring a Code to Lambda expressions
- Testing Lambdas
- Introduction to Default Methods
- Use Cases of Default Methods
- Resolution rules

### Defaults, Optionals and more

- What's wrong with Nulls in Java
- Moving from Nulls to Optional
- Optionals in Depth
- New Date and time API in Java8
- Reasons to go for new API
- Common Operations with New Date API
- Quick Functional Programming Refresher
- Understand about the Functional Programming techniques