

Java Certification Course

"Master Java – The Foundation of Modern Software Development"

Our Java Certification Course at TECHELEARN offers an in-depth learning experience for those seeking to master

Java programming and build a successful career in software development. Whether you're a

beginner or an experienced developer,



help you gain strong hands-on knowledge of Java, preparing you for high-demand roles in industries like finance, e-commerce, and technology.

Java remains one of the most popular programming languages in the world due to its versatility, scalability, and security features. It powers billions of devices worldwide, making it a key language for both web and mobile development, data processing, and large-scale systems.

Why Java?

Java is widely recognized as the foundation of modern enterprise-level applications and mobile solutions. Whether you're developing Android apps, backend systems, or large-scale enterprise applications, Java's reliability and scalability make it the language of choice for businesses worldwide.

 High Demand: Java is one of the most in-demand programming languages in the global tech industry.

- Career Opportunities: Java is essential for roles such as Java Developer, Full Stack Developer, Software Engineer, Backend Developer, and Android Developer.
- Cross-Platform Compatibility: Java's "Write Once,
 Run Anywhere" philosophy ensures your
 applications run on any platform without
 modification.
- Enterprise-Grade Solutions: Java powers a vast majority of enterprise solutions and large-scale systems due to its robustness and security features.

What Will You Learn?

Our **Java Certification Course** is designed to provide a deep understanding of Java programming, from core concepts to advanced topics. You will gain hands-on experience by working on real-world projects that help you apply the concepts you learn.

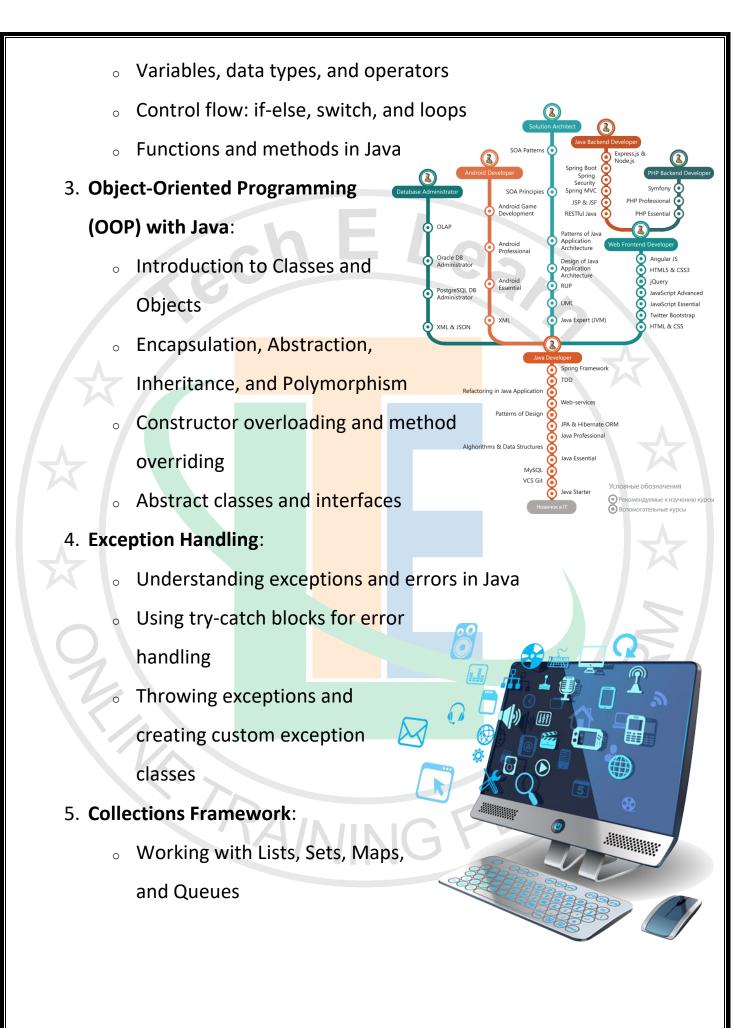
Core Areas of Learning:

- 1. Introduction to Java Programming:
 - Understanding the basics of Java syntax and programming structure
 - Setting up Java development environments: IDEs (IntelliJ IDEA, Eclipse, NetBeans)
 - Writing your first Java program

2. Core Java Concepts:



JavaScript

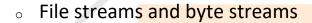


Java collections and their uses

 Sorting, searching, and manipulating data in Java collections

6. Java I/O and File Handling:

Reading and writing files (Text files, CSV, JSON)



Understanding serialization and deserialization in Java

7. Multithreading and Concurrency:

- Creating threads and managing concurrency
- Synchronization and thread safety
- Thread pools and advanced concurrency techniques

8. Java Networking:

Understanding socket programming in Java

Creating network applications

Working with client-server architectures

9. Database Connectivity (JDBC):

 Connecting Java applications to databases (MySQL, PostgreSQL)

Performing CRUD operations using JDBC



 Managing transactions and error handling

10. Java 8 Features and Beyond:

Introduction to Java 8
 features: Lambdas, Streams,
 and Functional Interfaces



- Understanding and using the Java 8
 Date/Time API
- Exploring newer features like Modules and Local Variable Type
 Inference (Java 10 and beyond)

11. **Building Java Applications:**

- Creating and deploying Java-based applications
- Using frameworks such as Spring and Hibernate for enterprise applications
- Working with RESTful APIs using Java

12. Java Web Development:

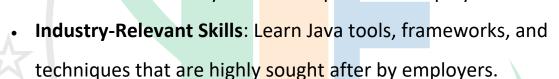
- Introduction to web development withJava
- Servlets, JSP, and Java EE(Enterprise Edition)
- Building web applications
 using Java frameworks like Spring Boot



Course Highlights

Comprehensive Curriculum: Covering everything from basic Java concepts to advanced topics like Java EE, web development, and multithreading.

- Hands-On Learning: Work on real-world projects, coding assignments, and quizzes to solidify your knowledge.
- Certification: Earn a globally recognized Java
 Certification upon successful completion of the course to showcase your skills to potential employers.



- Expert-Led Instruction: Learn from experienced instructors with years of industry expertise.
- Flexible Learning: Study at your own pace, anytime, anywhere, with our user-friendly online learning platform.
- Career Support: Access career counseling, job placement assistance, and interview preparation to kickstart your career.



Course Modules

Our **Java Certification Training Course** is divided into practical and digestible modules that will guide you through every aspect of Java programming:

- 1. Module 1: Introduction to Java
- 2. Module 2: Core Java Syntax, Variables, Functions



- 4. Module 4: Exception Handling and Error Management
- 5. Module 5: Collections Framework
- 6. Module 6: File Handling and I/O in Java
- 7. Module 7: Multithreading and Concurrency
- 8. Module 8: Java Networking
- 9. Module 9: JDBC Java Database Connectivity
- 10. Module 10: Java 8+ Features
- 11. Module 11: Building Java Applications
- 12. Module 12: Java Web Development with Spring Boot

Who Should Take This Course?

Our **Java Certification Course** is suitable for a wide range of individuals, including:

- Beginners interested in starting their career as Java developers.
- Aspiring Java Developers looking to
 build a strong foundation and enhance their programming skills.



Software Engineers and Application

Developers who want to deepen their Java knowledge and work with modern tools and frameworks.

 Web Developers looking to develop backend services using Java.

• IT Professionals aiming to expand their skill set and work on Java-based enterprise solutions.



Format Detail	Description
Duration	3 Months Training + 1 Month Practice
Learning Approach	30% T <mark>heory + 7</mark> 0% Practical
Assessment	90-minute certification exam with 60 MCQs
Passing Score	70%
Certification Criteria	Successful project submission + exam pass

Why Choose TECHELEARN?

Industry-Aligned Curriculum: Our course content is carefully crafted
to meet the demands of the tech industry,
helping you stay ahead in the job market.

Expert Mentors: Learn from instructors
 who bring years of practical experience in
 Java programming and development.

- Real-World Projects: Work on handson projects that give you a portfolio to showcase your skills to potential employers.
- Globally Recognized Certification: Get certified by TECHELEARN, a leader in online technical education.
- Career Assistance: Benefit from job
 placement support, resume-building
 assistance, and interview coaching to help
 you land your dream job.





Live Instructor-Led Online Training

- Self-Paced Learning + Assignments
- 🕲 📋 Corporate On-Demand Training Workshops
- Hybrid Model for Flexibility &

 Impact
- Includes: Source Code, Assignments,Quizzes, Final Capstone Project &Certificate Exam



Bonus Add-ons

- ✓ GitHub Portfolio Setup
- ✓ Resume & LinkedIn Optimization
- ✓ Interview Preparation Sessions
- ✓ Lifetime Access to Developer Community



Partner with TECHELEARN – Upskill Your Team

TECHELEARN offers customized **Java** training for businesses.

- A Talk to Our Enterprise Team
- Request a Tailored Group Training Plan
- **@** Get Started Journey Today

Join 11,000+ learners who trust TECHELEARN for career-ready skills.

(a) Java skills are in high demand. Don't just learn—Master it with TECHELEARN.





GET IN TOUCH

- Personalized Support: Whether you're seeking technical assistance or career guidance, we offer personalized, professional support.
- Collaborate with Us: We partner with educational institutions, businesses, and experts to offer training that meets industry needs.









+91 9426245757



www.techelearn.com



info@techelearn.com

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