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LEARN

PROFESSIONAL

TECHELEARN

— IT TRAINING —
HANDBOOK

JAVA DEVELOPMENT CERTIFICATION COURSE



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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,



this course will 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.



JavaScript™

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:



- 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)
- File streams and byte streams
- 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 with Java
 - 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.
- **Industry-Relevant Skills:** Learn Java tools, frameworks, and techniques that are highly sought after by 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**
3. **Module 3: Object-Oriented Programming with Java**
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.



Course Format

Format Detail	Description
Duration	3 Months Training + 1 Month Practice
Learning Approach	30% Theory + 70% 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 hands-on 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.




Training Modes



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.

-  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.

 **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.

JOIN US IN THIS EXCITING JOURNEY!



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