



JAVA TRAINING

Java Ee Training Certification Courses

Master Java EE development to build robust, scalable enterprise applications. Gain the skills needed for advanced Java solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intermediate-level Java EE Training Certification Course is meticulously designed to equip aspiring and current Java developers with the essential skills to build robust, scalable, and secure enterprise-grade applications. You will delve into the core Java Enterprise Edition technologies, learning how to leverage frameworks and APIs to construct sophisticated server-side solutions. The course covers everything from foundational web components like Servlets and JSPs to advanced enterprise services such as Enterprise JavaBeans (EJB), the Java Persistence API (JPA), and modern web service implementations (SOAP and RESTful). Through hands-on exercises and practical examples, you'll gain a deep understanding of the architecture and best practices for developing mission-critical applications.

Completing this certification will not only validate your expertise in the Java EE ecosystem but also significantly enhance your professional value in the competitive IT landscape. You will be prepared to tackle complex backend development challenges, integrate various enterprise systems, and contribute effectively to large-scale projects. The skills acquired are directly applicable to roles demanding proficiency in building high-performance, distributed applications, ensuring you are ready to drive innovation and efficiency within any organization utilizing the Java platform.

Duration	2 hours
Level	Intermediate
Vendor	Java

COURSE CURRICULUM

01 Module 1: Introduction to Java EE & Web Fundamentals

- Overview of Java EE Architecture and Specifications
- Setting Up Development Environment (IDE, Application Server)
- Servlet API: Life Cycle, Request/Response, Session Management
- JavaServer Pages (JSP): Syntax, JSTL, EL
- Introduction to MVC Pattern in Web Applications

02 Module 2: Advanced Web Tier and Dependency Injection

- JavaServer Faces (JSF): Component Model, Event Handling, Navigation
- JSF Lifecycle and Managed Beans
- Contexts and Dependency Injection (CDI): Scopes, Qualifiers, Producers
- Validation and Internationalization with JSF and CDI

03 Module 3: Enterprise JavaBeans (EJB) and Transaction Management

- EJB Overview: Session Beans (Stateless, Stateful, Singleton)
- Message-Driven Beans (MDB) for Asynchronous Processing
- EJB Interceptors and Timers
- Java Transaction API (JTA): Declarative vs. Programmatic Transactions
- Security with EJBs

04 Module 4: Java Persistence API (JPA)

- JPA Fundamentals: Entities, Entity Manager, Persistence Context
- Mapping Relationships: One-to-One, One-to-Many, Many-to-Many
- Inheritance Strategies in JPA
- Querying Data with JPQL and Criteria API
- Optimistic Locking and Caching

05 Module 5: Web Services (SOAP & RESTful)

- Introduction to Web Services and Service-Oriented Architecture (SOA)
- JAX-WS (SOAP) Web Services: Developing and Consuming
- WSDL, SOAP Messaging, and WS-Security Basics
- JAX-RS (RESTful) Web Services: Principles, Resources, Media Types
- JSON and XML Data Binding (JAXB)

06 Module 6: Messaging and Security in Java EE

- Java Message Service (JMS): Point-to-Point and Publish/Subscribe
- Integrating JMS with Message-Driven Beans
- Java EE Security Architecture: Authentication and Authorization
- Container-Managed vs. Programmatic Security
- Deployment and Monitoring of Java EE Applications

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Enterprise Java Backend Developer**
- > **Java EE Solutions Architect**
- > **Full-Stack Java Engineer (Backend Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational Java knowledge is required before enrolling in this Java EE Training Certification Course?

To get the most out of this Java EE course, participants should have a solid understanding of core Java programming concepts, including object-oriented programming (OOP) principles, collections, exception handling, and multithreading. Familiarity with relational databases and SQL is also highly recommended, as JPA and enterprise applications frequently interact with databases.

Q: What specific types of enterprise applications will I be capable of developing after completing this Java EE certification?

Upon successful completion of this certification, you will be equipped to develop a wide array of robust enterprise applications. This includes multi-tiered web applications with dynamic frontends, scalable backend services, distributed systems that leverage messaging for asynchronous communication, and data-intensive applications integrated with various databases, all adhering to industry-standard enterprise architecture patterns.

Q: How does this Java EE certification specifically enhance my career prospects compared to general Java programming skills?

This Java EE certification goes beyond general Java programming by validating your specialized expertise in building complex, large-scale enterprise solutions. It demonstrates to employers that you understand the full stack of Java EE technologies required for high-performance, secure, and scalable applications used in corporations worldwide. This distinction can lead to roles with greater responsibility, higher compensation, and opportunities in sectors heavily reliant on enterprise-grade software development like finance, healthcare, and telecommunications.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke