

# Java EE 7: Back-End Server Application Development

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 21 Mar. 2022 a 25 Mar. 2022
- **Preço:** 2940€
- **Horário:** Laboral - das 9h30 às 16h30
- **Duração:** 30 horas

The Java EE 7: Back-End Server Application Development training teaches you how to build and deploy enterprise applications that comply with Java Platform, Enterprise Edition 7 Full Profile.

Learn to develop applications with the following technologies: Enterprise JavaBeans (EJB), Java Persistence API (JPA), JDBC, Java Transaction API (JTA), Contexts and Dependency Injection (CDI), Java Message Service (JMS), Bean Validation, Batch API, Timer services, Java EE Concurrency and more.

## Learn To:

- Use Java EE 7 technologies to create, read, update and delete database records using both JDBC and JPA technologies.
- Create a flexible component model using EJB and CDI technology.
- Create SOAP-based and XML web services.
- Develop the business and integration tiers of an enterprise application.
- Understand how those components responsible for: interacting with other systems through web services and message queues.
- Become proficient with database access and manipulation using transactions.
- Provide timer, concurrency and batch services.
- Develop expertise using Java Enterprise Edition 7, the latest version of the Java platform for development of enterprise applications.

## Benefits to You

When you walk away from this course, you will have developed the knowledge and skills to read and write messages to systems that may or may not be developed using Java with Java Message Service create batch services to process thousands of jobs in parallel. This interactive, hands-on training is an excellent follow-up course to the [Java EE 7: Front-end Application Development training](#).

## Destinatários

- Developer
  - System Integrator
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## Pré-requisitos

### **Suggested Prerequisite**

- Java SE 7 or 8 programmer certification

### **Required Prerequisite**

- Java SE 8 Programming Ed 1
  - Basic understanding of database concepts and SQL syntax
  - Experience with Java SE
  - Understand OO principles
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## Objetivos

- Apply dependency injection using CDI
  - Apply the batch API to the problem of processing thousands of jobs in parallel
  - Create and apply Timer services
  - Create and use web services in enterprise applications
  - Develop enterprise components using EJB
  - Use JDBC in an enterprise environment
  - Use JMS to communicate between various enterprise systems
  - Use JPA to persist entities and create, read, update and delete database records
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## Programa

- Java Platform, Enterprise Edition
- Enterprise Development Tools and Applications
- Java Beans, Annotations and Logging
- XML Programming with JAXB
- SOAP Web Services with JAX-WS
- Java Naming and Directory (JNDI) Services
- The EJB Component Model
- Contexts and Dependency Injection
- Java Message Service
- Message-driven Beans
- Java EE Concurrency

- JDBC in Java EE Environments
- Transactions in Java EE Environments
- Java Persistence API
- Bean Validation with JPA
- Timer and Batch Services
- Security