

## Java EE 6 development with Boss AS 7 / EAP 6 (3 days)

Available on site

Available on line

Available classroom

# Get the most out of Java EE using JBoss Application Server!

## Overview

Developing **Java EE 6 applications on JBoss AS 7 / EAP 6.1** course is a three-day hands-on training which covers everything from basic installation to creating, debugging, and securing Java EE applications on the most widely used application server on the market. We will unleash the full potential of Eclipse Integrated Development Environment and Maven framework so that you do not merely learn new things but you also greatly increase your productivity.

JBoss AS 7 has been released in the last quarter of 2011 and is now widely used in the IT Industry thanks to its exceptionally lightweight kernel, unparalleled speed and its compliance to Java EE 6 standards. We have been the first team to provide Enterprise training for this product and, with over 50 training classes over the world, we can offer our experience either at your premises or by means of on-line trainings. If you are an individual or have limited numbers of participants, you can consider joining the available classrooms in your favorite Western Europe locations.

## Audience & Prerequisites

This course is engineered for Java developers or architects who want to get the most out of the Java EE API. Good Java programming skills are required to understand the topics and the labs contained in this course. A basic understanding of the Operating System environment is required as we will be using Maven shell during the labs.

## What will you learn from in this course

Enterprise Java developers are highly requested in the IT marketplace today. IT professionals can gain a serious competitive advantage and aspire to a valuable job position by learning Java EE skills from expert-led training.

The Developing Applications with Java EE 6 on JBoss AS 7 course teaches you the skills you need to successfully design, build and deploy Enterprise applications. Taking this course will give you hands-on experience through labs that teach you the following technologies: Enterprise JavaBeans

(EJBs), the Java Persistence API (JPA), JavaServer Faces (JSF), Contexts and Dependency Injection (CDI) and Bean Validation, JAX-WS Web Services and JAX-RS Web services. You will also learn how to create functional test for these technologies using the popular Arquillian Testing framework which is the *defacto* Java EE standard testing platform.

Here is the detailed list of topics that will be covered in the course:

- ➔ Installing the application server and the development tools required in this course
- ➔ JBoss AS 7 basics: exploring the AS 7 file system and its configuration
- ➔ Learning the EJB Paradigm and enhance your applications using CDI Beans
- ➔ How to create functional tests using Arquillian framework
- ➔ Develop JMS based applications by adding Queues, Topics and Selectors.
- ➔ Learn how to develop JAX-WS and RESTful Web services applications using the built-in providers
- ➔ Build rock-solid clustered applications using EJB and Web components
- ➔ Secure your applications using Security Domains and Login modules

## On-site Training

Mastertheboss.com organizes training courses as per requirement of the client at the client's premises subject to minimum and maximum of 5 and 25 participants respectively. Training courses can be delivered all around Europe and in many countries of North America, Middle East, Africa, Asia Pacific and Latin America. The fee for such events will be decided on a case to case basis mostly depending on the location of the customer. Contact us for a quote.

## Classroom Training

Mastertheboss.com organizes classroom training in the most accessible Western Europe locations such as London, Paris, Rome or Amsterdam. Classroom events are available on [EventBrite](https://www.eventbrite.com) (<https://www.eventbrite.com>) and advertised on <http://www.mastertheboss.com>

## Online Training

This is a flexible learning solution so that you can study any time, any place. Online courses help you to develop and improve your skills at your own pace. The price of the online training varies according to the number of students.

**Mastertheboss.com**

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This is the price for our JBoss AS 7 /EAP 6 development remote training:

Course Attendees	Price in Euros (for each student)
2-4	300
5-10	250
11-15	200
16-20	150

## Course material

Every course includes a set of materials that will be available to all participants. A course material includes:

- Software required to run the course
- Pre/course assistance to meet your training goals
- Post/course evaluation by means of questionnaires
- Online assistance for general queries about the course topics for the following 6 months

## Course Outline

### Getting started

- Overview of the Java EE 6 platform
- Installing the application server environment
- Installing the development tools and frameworks (Eclipse/Maven)

### EJB 3.1 development

- Getting started with Session Beans
- Developing EJB 3.1 applications using Singleton, Timers and Asynchronous EJB
- Creating remote EJB clients

### Context Dependency Injection

- Learning the CDI paradigm.
- Introduction to Java Server Faces API
- Developing CDI applications presented by JSF views
- Comparing the EJB and CDI approach

### JPA API

- Using JPA to map your Database tables
- Fetching data and persisting new Entities
- Enhancing JPA using Criteria Query
- Designing relationships between Entities

### Testing Java EE applications

- Introduction to Arquillian testing framework
- Building a full Java EE test case
- Testing In and Out of a running container
- Debugging your tests with Eclipse.

### Building JMS based applications

- Overview of the JBoss AS 7 JMS Provider (HornetQ)
- Creating JMS Queues and Topics in your applications
- Filtering data with Selectors.
- Routing messages with Diverts

### Using Java Web Services stacks

- Overview of JAX-WS and JAX-RS API
- Developing applications using JAX-WS Web services
- Advanced JAX-WS development
- Introduction to RESTEasy framework
- Developing RESTful Web services based applications

### Clustering applications

- Setting up a clustered environment and possible variations
- Turning your Java EE applications to be cluster-aware
- Installing and configuring mod\_cluster on Apache Web server
- LoadBalancing and High Availability of Enterprise applications

### Securing your applications

- Overview of JBoss Security Framework
- Using built-in Security Domain to secure your applications
- Creating Custom Security Domain
- Encrypting data used by your Web applications