

JBoss Professional Certification

PROFESSIONAL
CERTIFICATION FROM
THE SOURCE.

JBoss Inc. pioneered the Professional Open Source model founded on the principle of using core experts to deliver services, training, and support to assist enterprises adopt open source technology. Professional Certification from JBoss Inc. is an expansion of our core principle of guaranteed excellence and expertise. The only way to be certain that an individual or service provider is adequately prepared to handle the administration of or development on JBoss technology is to insist on Professional Certification.

Professional Certification can be obtained by attending specific JBoss training courses and taking the respective certification exam directly from JBoss Inc. Training may be provided by JBoss in either a private or public setting, or by members of our extensive network of JBoss Certified Partners.



JBoss Professional Certification

BENEFITS OF CERTIFICATION

JBoss Certified Partners:

- > Capitalize on the rapid growth in enterprise adoption of JBoss to generate new services-related business opportunities
- > Increase customer satisfaction and customer retention by delivering higher quality services
- > Compete in a market where end-users increasingly demand JBoss Certified Professionals

Enterprises:

- > Optimize performance of JEMS deployments by increasing employee expertise and productivity
- > Reduce time to market with JEMS projects and increase your overall return on technology investments
- > Increase employee satisfaction and retention

Individual IT Professionals:

- > Enhance career opportunities and accelerate advancement
- > Gain recognition and differentiation among peers and the open source community
- > Obtain the expert skills you need to increase job productivity and satisfaction

What is JBoss Professional Certification?

JBoss Professional Certification provides standards and structure for obtaining the knowledge necessary to expertly use JBoss Enterprise Middleware System (JEMS) technology. Whether you are an IT professional looking to enhance your skills and career opportunities, a JBoss Certified Partner needing the expert skills to provide JBoss support and services to your customers, or an enterprise needing a method of measuring the skill sets of your employees and vendors, JBoss Professional Certification provides the tools for your success.

Certification can be divided into three separate tracks based on the expected core competencies of the participants: Middleware Developer, Web Developer, and Administrator. Related certification exams and courses are organized so a student may progress from novice through expert level of knowledge.

Middleware Track	Web Tier Track	Administrator Track
Certified JBoss Developer/Consultant (Prerequisite placement exam plus 4-day JBoss Advanced training)	Certified JBoss Web Developer (Prerequisite 3-day JBoss for Web Developers training)	Certified JBoss Administrator (Prerequisite 2-day JBoss for Administrators training)
Certified JEMS Middleware Expert (Prerequisite CJD plus 4 days of specialty training)		
Certified JEMS Master Architect (Prerequisite CJME plus 4 additional days of specialty training.)		





JBoss Professional Certification - Definitions

Certified JBoss Developer

A Certified JBoss Developer (Middleware) has intimate knowledge on the technologies used in JBoss application server. He is capable of implementing J2EE applications for real world production systems where it is necessary to leverage the underlying server platform and customize it to application specific needs. A Certified JBoss Developer is knowledgeable on the implementation of the JBoss microkernel, the JBoss security framework, and interceptor based approach to building component containers. To ensure that you have the necessary skills to excel, it is highly recommended that you either attend the JBoss for Java Developers course, or successfully pass the no-cost Middleware Placement exam, before attending the JBoss for Advanced J2EE Developers Course.

JEMS Specialty Courses

JEMS Specialty courses in the middleware track are available for Hibernate 3, JBoss jBPM, and Clustering. Exams are available after each course for students to validate their skill level in a particular area of expertise. Students pursuing their JEMS Middleware Expert Certification must obtain scores of 90% or greater in each relevant exam.

Certified JEMS Middleware Expert

A Certified JEMS Middleware Expert has deep knowledge on the JBoss Application Server and intimate knowledge on one or

more additional middleware products that integrate with the JBoss AS. He is able to design applications that span several middleware layers and is able to optimize the implementations for specific JEMS products. Certified JBoss Developer is a prerequisite to JEMS Middleware Expert certification. Four additional training days of a combination of other specialty courses is required.

Certified Master JEMS Architect

A Certified Master JEMS Architect can both design and implement middleware applications on top of the JEMS platform. He has intricate knowledge of most or all of the available technologies, understands how they integrate together and how to fully take advantage of the platform to build robust, enterprise-ready, JEMS applications. A Certified JEMS Middleware Expert is a prerequisite to Master JEMS Architect certification, and a minimum of 4 additional specialty training days must be obtained.

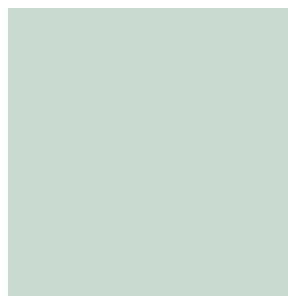
Certified JBoss Web Developer

A Certified JBoss Web Developer is capable of implementing presentation tier components for J2EE applications. They have the base knowledge on Servlet and JSP technology, Portlet specification, Tomcat Servlet container and JBoss Portal. A Certified JBoss Web Developer is able to implement and deploy presentation components (Web Archives) on Tomcat

server and Portlet components on JBoss Portal implementation.

Certified JBoss Administrator

A Certified JBoss Administrator has the required knowledge to install a JBoss Application Server for production usage. He understands the underlying mechanisms of the platform in order to be able to deploy applications, secure the application server, and set it up and integrate with other IT infrastructure. A Certified JBoss Administrator can also perform basic fine tuning of the application server and set the server up for fail-over and high-availability scenarios.





JBoss Professional Certification Track - Middleware

JBoss and EJB3 for Java Developers

This class is an in-depth introduction to J2EE and JBoss Application Server. It focuses on a hands-on approach to development with emphasis on the labs. The format is 50% theory, 50% labs. No prior knowledge of J2EE is required. Basic Java programming knowledge is required. It is a 4 day course and based on JBoss 4.x series. (This course does not lead to a standalone certification, but will prepare students for moving into the Middleware Certification Track.)

Course Modules

Introduction to J2EE and EJB3	Naming Service and JNDI
Servlets	Java Server Pages
Introduction to EJB	EJB3: Stateless Session Beans
EJB3: Stateful Session Beans	EJB3: Entity Beans
Transaction Assembly	J2EE Security and JBoss
JMX & JBoss Microkernel	J2EE Tools (optional)
Web Services With EJB3	EJB3 Interceptors
EJB 2.0 Container Managed Persistence	
EJB3: Message Driven Beans (MDB) & Java Message Service (JMS)	

This is a 4-day course.

JBoss for Advanced J2EE Developers

This is our advanced training targeted at advanced developers, consultants wanting to become Certified JBoss Developers and team leads/architects who want to base their applications on JBoss. Divided into 70% theory and 30% labs, this course is intensive, high-level, theoretical and in-depth. A good deal of lecture time is spent understanding the fundamental design choices behind JBoss, the Aspect Oriented Programming nature, the detyped invocation flow the abstract interceptor on the client and server side, and how easily you can apply all this to build your own strand of JBoss optimized for your needs. It is strongly recommended that you either attend the JBoss for Java Developers course or take the Middleware placement exam prior to registering for this course.

Course Modules

JBoss State of the Union	Architecture Overview
JMX in JBoss	JBoss Microkernel
JBoss Smart Proxies	EJB Container
Introduction to EJB3	Aspect Oriented Middleware
JBoss Cache	EJB Clustering
Security in JBoss	JMS
Fine Tuning JBoss Application Server	

This is a 4-day course.

Note: this course is not recommended for beginner Java programmers.

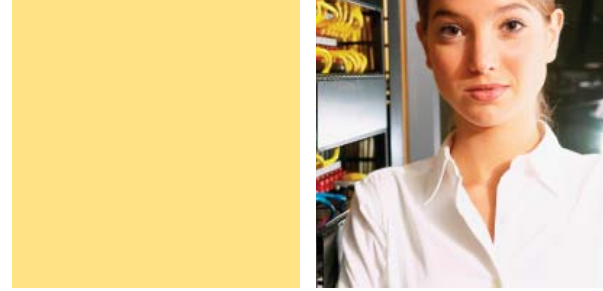
Hibernate 3

This training is targeted at experienced Hibernate developers wanting to become experts on Hibernate 3.X. This 2 day class is spent with 70% theory and 30% labs. There is also a four hour web-based tutorial that all attendees should view prior to attending the 2 day class. Access to the tutorial is included in Hibernate 3 course registration, and covers the basics of object persistence.

Course Modules

Flashback	Advanced class and property mapping
Associations and Collections	Transactional Processing
Querying and Fetching Data	Application Design
Legacy System Integration	Caching and Tuning
Deployment and Configuration	

This is a 2-day course.



JBoss Professional Certification Track - Middleware

JBoss jBPM

The JBoss jBPM training course is designed for Java developers and architects that wish to gain an understanding of workflow and business process management concepts and how they are implemented in the open source JBoss jBPM product. This is a 2 day course that includes both theory and hands-on labs.

Course Modules

Workflow and Business Process Management	
Workflow responsibilities	Application architecture
Test Driven Development (TDD) applied to workflow	
Graph based modelling	Process modelling with JPDL
Integrating customizations	
Preview of new features in JBoss jBPM 3.0	

This is a 2-day course.

Clustering

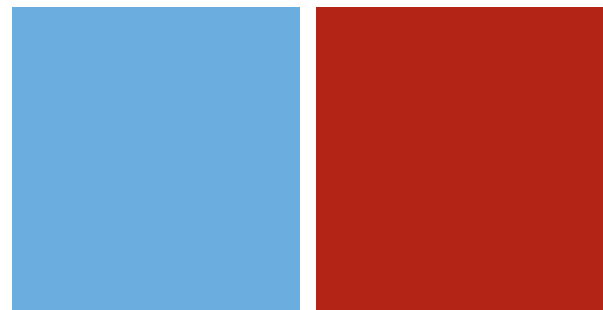
This is a 4-day training focusing on high availability services of JBoss Enterprise Middleware System (JEMS). You will learn how JBoss Application Server leverages JGroups and JBoss Cache for replication and fail-over, how to configure, tune and implement JGroups protocol stacks, how to leverage JBoss Cache in your own middleware application implementation and how to use and configure mod_jk for HTTP load balancing. We will also cover in some detail JBoss Application Server high availability services such as HA-JNDI, HA-JMS and HA-singleton.

This course is targeted for people who are or wish to become experts on JEMS technologies. A solid understanding of JBoss Application Server is required and JBoss for Advanced J2EE Developers course is strongly recommended before taking this course.

Course Modules

JBoss State of the Union	JGroups Protocols
Overview to JEMS High Availability Services	
Reliable Multicasting with JGroups	JBoss Cache Overview and API
JGroups Building Blocks and Troubleshooting	
Protocol Stacks and Implementation	
Cache Loaders and Eviction Policies	
Cache Replication, Transactions and Isolation Levels	
JBoss Cache AOP Overview and API	
JBoss Cache AOP Implementation	HTTP Load Balancing and Failover
EJB Load Balancing and Failover	
Failover with Messaging (HA-JMS)	
Clustered Services (HA-Singleton)	

This is a 4-day course.



JBoss Professional Certification Track - Web Developer

JBoss for Web Developers

This is a 3-day training focusing on web tier technologies in the JBoss Enterprise Middleware System (JEMS) product stack.

We cover details on JBoss Portal, how to create and deploy portlets, integrating portlets with other web tier frameworks such as JavaServer Faces (JSF) and configuring and tuning the Tomcat web container embedded in JBoss Application Server. Familiarity with JSP and Servlet development and related specification is heavily recommended. No previous experience with Portlets or JSF is required.

Course Modules

JBoss State of the Union	Web Tier Architecture Overview
Portlet Overview	Portlet Programming Model
Installing and Configuring JBoss Portal	
User and Group Management	Personalization
Localization and Security	Advanced Servlet and JSP
Java Server Faces for Application Developers	
Portal Interaction with Servlets and JSP	
Web Container Architecture (Tomcat)	
JEMS Web Tier Clustering	
Tomcat Connectors, Containers and Valves	

This is a 3-day course.

JBoss Professional Certification Track - Administrator

JBoss for Administrators

This course is targeted at systems administrators who wish to become proficient in administering JBoss application server instances. This course focuses on installation and deployment issues with the JBoss application server as well as configuring the server for production usage. The format is 50% theory and 50% spent on hands-on practical exercises.

This training does not require previous Java or J2EE knowledge. Familiarity with XML and related tools and technologies is recommended.

Course Modules

JBoss State of the Union	JBoss Basic Deployments
JBoss Application Server Architecture	
Installing JBoss Application Server	JBoss Production Installation
JBoss Production Deployments	Tuning and Monitoring
Securing JBoss Services	Middleware Clustering
Introduction to JBoss and J2EE Security Concepts	

This is a 2-day course.

Your success greatly depends upon your ability to learn, implement, and ultimately support technology such as JBoss AS. That's where our team of product experts comes into play. JBoss, Inc. and our network of JBoss Certified Partners can provide the training, consulting, and professional support that you will need whether you are testing a proof of concept, deploying several mission-critical applications, or rolling out JBoss open source products into production across your entire enterprise.

More information regarding JBoss services can be found at:
<http://www.jboss.com/services/index>

We want your JBoss experience to be a positive one. If at any time you would like to contact JBoss, Inc. regarding our support, training, or consulting options, please call us at our US Headquarters +1 (404) 467-8555; contact our European Headquarters at +41 32 720 9260; or simply send us an e-mail at: sales@jboss.com.

Getting Started

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