

KAÏNA-COM TRAINING CATALOGUE

Java – Extended Edition

This hands-on course provides the Java software developer with all he needs to know to start programming in Java EE



KJV002 – Java – Extended Edition

Reference KJV002

Experience

- Beginner
- Intermediate
- Advanced

Duration Training Program:
• 6 days

Training Method

- I: i-learning, individual training (web-based training)
- V: v-learning, virtual class
- C: c-learning, classroom training

KAÏNA-COM
LE CARRÉ HAUSSMANN II,
6 Allée de la Connaissance
77127 Lieusaint - France

Price 4.026,00 € HT

Prerequisite Some practical Java programming experience.

Audience Software developers wishing to learn to use Java EE and understand its varied and multiple uses.

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KJV002 – Java – Extended Edition, Continued

Objective

This hands-on course provides the Java software developer with all he needs to know to start programming in Java EE. The course covers topics needed for the advanced developer using Java Extended Edition (Java EE). It includes Java beans, transactions, servlets, server pages and web services support. By the end of the course, the course participant will be capable of developing Java EE applications.

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Nos locaux
KAÏNA-COM France
LE CARRÉ HAUSSMANN II
6 Allée de la Connaissance
77 127 Lieusaint



Contact
+33(0)9 50 20 91 64



E-mail
info@kaina-com.fr



Site Internet
www.kaina-com.fr

KJV002 – Java – Extended Edition, Continued

Course Contents

Course Contents :

Table 1: KJV002 - Course Contents

Chapter	Description
Introduction	<ul style="list-style-type: none"> • Java Enterprise Edition • Integrated Application Development • Web Server or Application Server • EJB 3 Basics • Projects in Java EE • EJB Security • EJB Deployment
Transactions	<ul style="list-style-type: none"> • Need for transactions • Transaction Components • Distributed transactions • Java transactions API
Java Beans	<ul style="list-style-type: none"> • EJB Development Overview • The Enterprise Bean Class • Enterprise JavaBeans Communications • Session beans • Stateless beans • Message driven beans • The Remote Interface • The Home Interface • Deployment Descriptors and EJB-JAR files
Entities and Persistence	<ul style="list-style-type: none"> • Persistence • Entities v session beans • EJB Query Language • Entity relationships • Entity inheritance

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KJV002 – Java – Extended Edition, Continued

Course Contents, Continued

Chapter	Description
Design Patterns	<ul style="list-style-type: none">• EJB Design Patterns• Case studies
Writing an EJB Client	<ul style="list-style-type: none">• Detailed guide
Java Message Service (JMS)	<ul style="list-style-type: none">• The principles of messaging systems• Features of the Java Messaging Service (JMS)• Writing a message driven Bean• Message Driven Bean Clients
Web Tier Technology	<ul style="list-style-type: none">• Java Servlet• Java Server Page (JSP)• Java server pages Standard Tag Library (JSTL)• Java Server Faces (JSF)• Web applications
XHTML, CSS and JavaScript	<ul style="list-style-type: none">• HTML, XML and XHTML• Cascading Stile Sheets (CSS)• JavaScript fundamentals
Web Services in Java	<ul style="list-style-type: none">• XML in Java• What are web services• Java Architecture for XML Binding (JAXB)• Soap protocol• WSDL (web service definition language)• UDDI (Universal Description Discovery and Integration)• Java API for XML Web Services (JAXWS)

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KJV002 – Java – Extended Edition, Continued

Course Contents,
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Chapter	Description
Servlets	<ul style="list-style-type: none"> • MVC (Model View Controller) architecture • HTTP • What is a servlet • Servlet life cycle • Web application structure • Writing simple Hello World servlet • Understanding web.xml • GET and POST: retrieving request parameters, sending a response • Re-directing a request, request dispatcher • Session management • Handling cookies • Creating war files
JSP pages	<ul style="list-style-type: none"> • What is JSP • JSP elements – declaration, directive, scriptlet, expression and action • JSP Architecture • JSP Page life cycle • Page directive attributes conditional and iterative statements • JSP implicit variables and objects
JSP handling	<ul style="list-style-type: none"> • Handling exceptions using <code>errorPage</code> and <code>isErrorPage</code> attributes • JSP session handling, example • JSP Authentication: how to secure servlets and JSP pages

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KJV002 – Java – Extended Edition, Continued

Course Contents, Continued

Chapter	Description
JSP Tag libraries	<ul style="list-style-type: none">• JSTL (JSP Standard Tag Library)• JSTL Expression Language (EL)• Iteration tags• Logical tags• Database access tags• Miscellaneous tags• Writing a Custom Tag Library
Struts	<ul style="list-style-type: none">• Struts architecture,• Struts classes• Struts config.xml• Action mappings• Struts flow with example application
Struts Tiles	<ul style="list-style-type: none">• Tiles and tiles file structure• Building the layout file and creating a tiles template• Using tiles• Tiles definitions and attributes• Creating and deploying a definition XML file• Creating a small application using tiles
Servers	<ul style="list-style-type: none">• Application Servers• Web Servers

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Course Contents, Continued

Chapter	Description
The End	<ul style="list-style-type: none">• Summary• Q&A• Evaluation

