



13664 Red Fox Court, Rapid City, SD 57702 (605) 341-6151

## Course Setup Guide

**Course Title:** Enterprise JavaBeans (EJB) Development

**Hardware Requirements:** The EJB class requires the following hardware configuration:

- Windows NT 4.0/2000/XP operating system running on Intel hardware.
- Minimum Pentium 600MHz or faster processor.
- At least 128MB of RAM, more is preferred.
- The computers should be connected via a network so that files can be shared and network connections can be made between the PCs.

**Software Requirements:** The EJB class requires the following software installed on each PC:

- The latest version of the J2SE standard developer's kit (known as the SDK). This is freely downloadable at <http://java.sun.com/j2se>.
- The J2SE documentation, which is also freely downloadable at the same link above.
- A Java IDE or text editor. We recommend TextPad (<http://www.textpad.com>) unless the client has a specific request. IDEs tend to make the class more difficult to deliver unless the students are already familiar with the IDE being used.
- Sun's Java 2 Enterprise Edition standard developer's kit (known as the J2EE SDK), which can be downloaded at <http://java.sun.com/j2ee>.

Two environment variables need to be set before the J2SDKEE application server will run: JAVA\_HOME needs to be set to the Java install directory (e.g. "c:\jdk1.4"), and J2EE\_HOME needs to be set to the J2SDKEE install directory (e.g. "c:\j2sdkee1.3").

To compile most of the code in this class, the file "c:\%J2EE\_HOME%\lib\j2ee.jar" needs to be in your CLASSPATH.

To run the application server, open a DOS window and change directories to "c:\%J2EE\_HOME%\bin". Type in "j2ee -verbose". To run the deployment tool, type in "deploytool".

When using the Cloudscape database that comes with the J2EE app server, you must start the database before starting the app server. To start Cloudscape, change directories to "c:\%J2EE\_HOME%\bin" and type in "cloudscape -start". Then start the app server, then start the deployment tool, thereby requiring three DOS windows to run all three programs.

**In case of questions:** Contact Rich Raposa at [richraposa@jvalicense.com](mailto:richraposa@jvalicense.com).