

## Java EE- Enterprise Java Course Overview (J2EE / JEE)

**Course Code:** JAV0030

**Duration:** 5 Days - custom / on-site options available - please call.

**Who should attend:** Experienced Java programmers who require the skills to develop enterprise applications.

**Prerequisite Skills:** Programming experience of the Java language as covered in our Java SE course. Some prior contact with internet technologies is helpful, though not essential.

Java has taken the IT industry by storm over the past few years and there are now thousands of developers using it as their language of choice. This course offers existing Java developers further skills which will enable them to exploit the enterprise elements of this very capable programming environment, it also covers the key enhancements made to Java in versions 5 and 6.

### Course Content

Sun has rebranded and updated J2EE as Java EE - and it's rapidly becoming known as JEE in the Java community. Our Java EE training course provides an overview of the latest Java EE architecture, and intensive hands-on experience in the development and implementation of scalable distributed applications using Enterprise JavaBeans (EJB 3), Java Persistence Architecture (JPA) and Java Server Page (JSP) technologies – including Java Server Faces (JSF) and possibilities for integration with Web 2.0-enabling techniques like AJAX.

### What you will learn

1. How to build a modern web presentation tier, exploiting the latest JSF components and integrating rich client techniques.
2. How to build better and simpler EJBs with EJB 3 and annotation techniques.
3. How to leverage XML with better programming techniques and easier creation of web services.
4. How to improve access to relational data with the Java Persistence API.
5. How to manage transactions and security in a Java EE environment.
6. Assess vanilla Java EE versus popular framework alternatives.

### Hands On Exercises

Delegates receive hands-on experience of building Java EE applications, including:

1. Building JSF components for web presentation, and integrating these into a fully working application.
2. Managing security and transactions in a full-blown application server environment.
3. Writing a business tier incorporating new-style Enterprise Java Beans.

4. Experiencing the ease with which the business tier can be transformed into a web service layer.
5. Creating a JPA mapping layer to an existing relational database.
6. Exploring Java Messaging Services for synchronous and asynchronous application communication.