

Price: R2,100.00 excl. VAT
Duration: 1 day
Code: J2EEV

JEE Overview

Description

Java Enterprise Edition (JEE) is a collection of technologies for the Java platform that is designed to support large, complex software systems in a corporate environment. This course is for companies and individuals who are starting to use JEE and need an overview of the JEE architecture. The course will show you how all the technologies fit together, so that you can better understand their use.

This course is run in parallel with the first day of the JEE Architecture course. If you have Java programming experience, you will benefit more from attending the full 3 days.

Objectives

After you have completed the JEE Overview course, you will be able to:

- Understand the concepts of distributed computing and component-based architectures.
- Understand the JEE architecture and choose appropriate JEE technology.
- Understand the differences between the JEE and .NET platforms.
- Understand the role of web services in distributed computing.

Intended Audience

You should attend the JEE Overview course if:

- You are a programmer or system architect and you want a high-level understanding of the JEE environment.
- You are a project or programme manager, and you want a high-level understanding of the JEE environment.

If you need an in-depth understanding of specific technologies within JEE, then you should think about attending one of our more specialised courses:

- Java Servlets and JSP course
- JavaServer Faces course
- Enterprise JavaBeans course
- Java Web Services course

Prerequisites

There are no prerequisites for the JEE Overview course.

Course Contents

Distributed Computing Overview

- Monolithic software development.
- Client-server model.
- Multi-tier development.
- Origins of and need for distributed computing.
- Component-based architectures and JEE containers.
- CORBA and Java IDL.
- RMI and RMI-IIOP
- Web Services: SOAP vs RESTful.

JEE Application Servers and Containers

- JEE Application Servers (JAS).
- Servlet and EJB containers.
- IoC/DI containers.
- Container Services.

JEE Technology, Container Services and APIs

- Servlets and Java Server Pages (JSP).
- Enterprise JavaBeans (EJB).
- Java Naming and Directory Interface (JNDI).
- Remote Method Invocation (RMI)
- RMI-IIOP (RMI over Internet Inter-ORB Protocol).
- Java Database Connectivity (JDBC).
- Java Persistence API (JPA).
- Java Transaction API (JTA) and Transaction Service (JTS).
- Java Message Service (JMS).
- JavaMail and Java Activation Framework (JAF).
- JEE Connector Architecture (JCA).
- Java Authentication and Authorization Services (JAAS).

Java Servlets and Java Server Pages (JSP)

- Static vs dynamic pages.
- HTTP requests, responses, cookies and sessions.
- Usage of servlets and JSP pages.
- JSP Standard Tag Library (JSTL).
- JavaBeans and the MVC architecture.
- Web development frameworks e.g. JSF, Struts, Wicket

The Role of EJBs

- EJBs as the core of a JEE application.
- EJB2 versus EJB3.
- Session beans as business processes.
- Message-driven beans as decoupled business processes.
- Entity beans as core business data.
- JPA as the heart of EJB3 persistence.

*** The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*