

## Advanced Java EE Patterns with Servlets, JSPs and EJB (JAV520): 5 dagen

### Doelgroep:

Java developers who want to build distributed object-oriented multi-tier systems, and Java developers who want to use EJB.

### Voorkennis:

Attending students should be experienced programmers with strong Java background. We recommend one year of Java programming experience (or equivalent). Basic knowledge of distributed computing, (RMI and/or CORBA/Java, Java EE), Working Knowledge of Servlets, JSP and EJB. Multi-tier application and database experience helpful.

### Globale inhoud:

Java EE technology is rapidly gaining acceptance and many large and small projects are being implemented using this technology. Despite its maturity and relatively easy programming model (compared to CORBA, for instance), it is very easy to end up writing non-optimal applications. This is primarily due to the vastness of the technology and a lack of application development guidelines that help Architects, Designers and Developers leverage the technology.

This course provides practical guidelines that are critical for successfully developing and deploying applications using the Java EE technology. It involves extensive hands-on labs that reinforce concepts discussed in lectures. The primary focus is on providing guidelines for JSP, Servlet and EJB (including Message Driven Beans) patterns that enhance application evolution and performance. The course is easily customizable to suit your unique requirements and goals.

Working in a hands-on environment, under the guidance of our experienced subject matter expert, developers will explore:

- Tag Libraries and how to leverage them in JSPs.
- Servlet design patterns including:
- Command pattern based dispatcher
- State pattern based controllers
- URL Mapper Pattern
- EJB Home Cacher Pattern
- Shadow-Method Pattern
- Understand Standard EJB design patterns including:
- Value-Object pattern
- Bulk getter/setter pattern
- Sub-set Value Object Pattern
- Common Interface Pattern
- Updateable View Pattern
- With and without Database trigger usage
- Synchronous Façade Pattern
- Asynchronous Façade Pattern
- Program Logic Factoring in EJBs
- Session EJBs and Iterator Pattern

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**Invulling:**

This workshop is about 50% hands-on lab and 50% lecture. Multiple complete mini-projects are laced throughout the course, designed to reinforce fundamental skills and concepts learned in the lessons.

**Specifieke inhoud:**

## Session 1: Java EE Architecture and MVC

- Overview of Java EE
- The MVC architecture in Java EE and the roles of JSPs, Servlets and EJBs in this architecture

## Session 2: JSP Programming

- Brief introduction to basic JSP programming
- Tag Libraries - creating and using custom tags
- Program Logic Factoring using Tags
- Lab: Extensive Tag Library Lab

## Session 3: Patterns for HTTPServlets

- Overview of Servlet Technology
- State Pattern based Controller
- Lab: State Pattern Lab
- URL Mapper Pattern
- Lab: URL Mapper Lab
- EJB Home Cacher Pattern
- Lab: EJB Home Cacher Pattern
- Shadow Method Pattern
- Lab: Shadow Method Pattern
- Command Pattern Servlet Dispatcher
- Lab: Command Pattern Lab

## Session 4: Patterns for EJBs

- Comparison of Session and Entity Beans
- Patterns for Session Beans
  - o Façade Pattern
  - o Lab: Façade Pattern lab
  - o Asynchronous Façade Pattern
  - o Lab: Asynchronous Façade Pattern
  - o Program Logic Factoring and EJBs
  - o Lab: PLF in EJBs
  - o Stateful Session EJB and the Iterator Pattern
  - o Lab: Iterator Pattern lab
  - o Stateless Session EJB and the Iterator Pattern
  - o Lab: Stateless Iterator using Singleton Lab
  - o Common Interface Pattern
  - o Lab: Common Interface Lab
  - o Bootstrap Session Layer Pattern
  - o Lab: Bootstrap Session Layer Pattern
- Patterns for Entity Beans
  - o Value Object and Bulk Getter/Setter Pattern
  - o Lab: Lab for illustrating Value object and get/set pattern
  - o Subset Value Object Pattern
  - o Lab: Subset Value Object Lab
  - o Updateable View Pattern
  - o Lab: Updateable View without Trigger Lab
  - o Updateable View Pattern using Triggers
  - o Lab: Trigger based Updateable View pattern lab

**Cursusvorm(en):**

Klassikaal, Open rooster

**Voorafgaande cursussen:**

JAV481 Java EE Web Development with Servlets, JSP,Tags, Struts and JSF

**Rooster komende maanden:**

7 juni 2010            Driebergen    € 2345,00

18 oktober 2010    Amsterdam    € 2345,00

Meer datums: <http://www.twice.nl/cursusdata.aspx?v=5665>

Alle vermelde prijzen zijn onder voorbehoud en exclusief 19% BTW.

Voor meer informatie over of reserveren van deze training kunt u contact opnemen met één van onze opleidingsadviseurs. (telefoon: 0343-533123, e-mail: [info@twice.nl](mailto:info@twice.nl)).

Inschrijven of reserveren kan ook via onze website. Klik op onderstaande link om direct te reserveren voor deze training.

Direct inschrijven:

<http://www.twice.nl/content/inschrijven.asp?id=5665>