



# OUR COURSES

**Solid Beans AB**  
**Östra Larmgatan 13 (2tr)**  
**411 07 Göteborg**  
**Sweden**

- Java for beginners
- JavaEE
- EJB 3.1
- JSF (Java Server Faces)
- PrimeFaces
- Spring Core
- Spring Advanced
- Maven
- One day intensive EJB 3.1
- One day intensive JSF
- One day intensive Spring

All prices are per person in Swedish Krona

# JAVA FOR BEGINNERS

5 days / 20K SEK

## Who can benefit from this course?

Developers, technical managers and individuals with a technical, non-programming background, such as system administrators. Programmers who prefer to start learning the Java programming language at an introductory level.

## Prerequisites

You have basic mathematical, logical and analytical problem-solving skills. It can help you if you have experience from other programming languages.

## Course objectives

Java programming language, syntaxes and object-oriented concepts.

## Course details

### Introduction

- What is Java?
- Key benefits of Java
- An example program

### Java Syntax

- Java Programs from the Top Down
- Lexical Structure
- Primitive Data Types
- Expressions and Operators
- Statements
- Methods
- Classes and Objects Introduced
- Arrays
- Reference Types
- Packages and the Java Namespace
- Java File Structure
- Defining and Running Java Programs

# Object-Oriented Programming in Java

- Class Definition Syntax
- Fields and Methods
- Creating and Initializing Objects
- Destroying and Finalizing Objects
- Subclasses and Inheritance
- Data Hiding and Encapsulation
- Abstract Classes and Methods
- Important Methods of `java.lang.Object`
- Interfaces
- Nested Types
- Modifier Summary

## Java Language Features

- Generic Types
- Enumerated Types
- Annotations

## The Java Platform

- Java Platform Overview
- Text
- Numbers and Math
- Dates and Times
- Arrays
- Collections
- Threads and Concurrency
- Files and Directories
- I/O with [java.io](#)
- Networking with [java.net](#)
- I/O and Networking with `java.nio`
- XML
- Types, Reflection, and Dynamic Loading
- Object Persistence
- Cryptography

## Java Security

- Security Risks
- Java VM Security and Class File Verification
- Authentication and Cryptography
- Access Control
- Security for Everyone
- Permission Classes

## Programming and Documentation Conventions

- Naming and Capitalization Conventions
- Portability Conventions and Pure Java Rules
- Java Documentation Comments
- JavaBeans Conventions

## Java Development Tools

- NetBeans
- Eclipse

# JAVA EE

5 days / 20K SEK

## Description

Java Enterprise Edition (Java EE, JEE or J2EE) is the industry standard for enterprise Java computing. You can use the Java EE platform to develop an enterprise Java application quick and easy. The platform has several specifications such as JSF, EJB, JPA, JTA and more...

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

## Course details

This hands-on course provides participants with the knowledge and experience required to develop and deploy Enterprise JavaBeans robust Java EE (Java Enterprise Edition) applications.

The focus of the course is on building components that are deployed to the EJB Container and building web-enabled applications.

This course covers architectural design issues as well as specific coding models for Java EE components and is up to date with the latest specifications including:

- The architecture and use of JEE technologies
- Writing web applications that combine Java Servlets, JavaServer Pages and JavaBeans using the Model-View-Controller architecture
- Developing web applications using the component-based and event-driven JavaServer Faces framework
- Sending & receiving asynchronous messages with the Java Message Service
- Interface with mail servers with JavaMail
- Enterprise JavaBean architecture
- Session and message-driven EJBs
- Accessing relational databases with the Java Persistence API
- Handle transactions with the Java Transaction API

# EJB 3.1

2 days / 9K SEK

## Who can benefit from this course?

Java developers interested in developing server side APIs with Java EE and EJB.

## Description

This course gives the experienced Java developer a thorough grounding in Enterprise JavaBeans -- the Java EE standard for scalable, secure, and transactional business components. Students get an overview of the EJB rationale and architecture, and then dive right into creating session beans and entities including JPA, JTA, JMS, DI, JNDI, interceptors and so on.

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

## Course details

This training course introduces you to following topics:

- Overview
- Architecture
- Session Beans
- Entities (JPA, Java Persistence Query Language)
- Dependency Injection & Interdependent Systems
- Message-Driven Beans
- Transactions
- Exception Handling
- Security
- Interceptors
- Timers

# JAVA SERVER FACES

3 days / 14K SEK

## Who can benefit from this course?

Java developers and Java EE programmers interested in developing Web applications with JavaServer Faces.

## Description

JSF is standard framework, developed through Java Community Process (JCP), that makes it easy to build user interfaces for Java web applications by assembling reusable components in a page. JSF is based on well established Model-View-Controller (MVC) design pattern. Applications developed using JSF frameworks are well designed and easier to maintain than any other applications developed in JSP and Servlets.

This training course introduces the developer to the JSF architecture and provides the basis for planning, developing, and deploying Web based applications using the JSF framework. After taking this class, the developer will be able to quickly construct dynamic server-side web applications using JSF. At the end of the course you should be able to understand JavaServer Faces and associated technologies.

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

## Course Topics

- Introduction
- Navigation
- Setting up JSF
- Data Validation
- JSF as MVC
- Type Conversion
- Managed Bean
- Message Bundle and Resources
- Views
- Security
- Expression Language
- Event Handling
- Request Processing Lifecycle in general
- Request Processing Lifecycle (advanced phase events/listeners)
- Standard Components (I/O Components)
- Customized Components
- Table, PanelGrid, PanelGroup
- Composite Components
- Styles and templates
- JSF & AJAX
- Using JSF open source extended libraries such as Primefaces, Icefaces or Richfaces

# PRIMEFACES

3 days / 18K SEK

## Who can benefit from this course?

Java developers and Java EE programmers interested in developing Web applications with JavaServer Faces.

## Description

JSF is standard framework, developed through Java Community Process (JCP), that makes it easy to build user interfaces for Java web applications by assembling reusable components in a page.

PrimeFaces is an open source JSF component library, build on top of JSF to enhance Web developing by JSF including lots of futures such as Ajax, Ajax Push and so on.

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

## Course Topics

This training course introduces the developer to the JSF architecture and provides the basis for planning, developing, and deploying Web based applications using the JSF framework and then PrimeFaces.

At the end of the course, you should be able to understand JavaServer Faces, Primefaces and associated technologies.

- Introduction
- Setting up JSF
- JSF as MVC
- Managed Bean
- Views
- Expression Language
- Request Processing Lifecycle in general
- Standard Components (I/O Components)
- Table, PanelGrid, PanelGroup
- Styles and templates
- Navigation
- Data Validation
- Type Conversion
- Message Bundle and Resources
- Security
- Event Handling
- Request Processing Lifecycle (advanced phase events/listeners)
- Customized Components
- Composite Components
- JSF & AJAX
- Introduction to PrimeFaces
- Setup and configuration
- Using the component suite
- Lightweight Ajax and PPR
- Tips and Tricks

# SPRING CORE

2 days / 9K SEK

## Who can benefit from this course?

Java developers and Java EE programmers interested in developing applications with Spring frameworks.

## Description

Spring is a leading Java/JEE application framework. In this hands-on course, attendees learn how to use Spring to rapidly build Java EE applications using Spring core and common Spring modules including aspect oriented programming (AOP) and database access objects and also transaction management.

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

## Course Topics

At the end of the course, you should understand Spring and associated technologies including:

- Develop Java applications using the Spring Framework
- Spring container
- The scope, purpose and architecture of Spring
- Spring's IoC (Inversion of Control)
- Spring DI (Dependency Injection)
- Defining Spring beans and wiring beans
- Aspect oriented programming (AOP) to add behavior to objects and separate behavior from business logic
- Connect business objects to persistent stores using Spring's Data Access Objects (DAO) and Object Relational Mapping (ORM) modules
- Make use of Spring's support for transactions

# SPRING ADVANCED

2 days / 10K SEK

## Who can benefit from this course?

Java developers and Java EE programmers interested in developing applications with Spring frameworks.

## Description

Spring is a leading Java/JEE application framework. In this hands-on course, attendees learn how to use Spring to rapidly build Java EE applications using advanced Spring modules.

## Prerequisites

At least one year of full-time experience with developing applications using Java SE.

+ Spring Core course in advance.

## Course Topics

At the end of the course, you should understand Spring and associated technologies including:

- Develop Java applications using the Spring Framework
- Spring Messaging
- Spring MVC
- Spring Web Flow
- Spring Remoting
- Spring Web Services
- Spring Security
- Spring unit testing support

# MAVEN

1 day / 4K SEK

## Who can benefit from this course?

Java developers and Java EE programmers interested in building project, reporting and documentation from a central piece of information.

## Description

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.

## Prerequisites

Knowledge of software development, Java SE, Overview of Java EE development and deployment process.

## Course Details

Once you have completed Maven training course you will be confident enough to build your project by Maven, packaging resources, using Maven plugins, handling project inheritance and dependency management and scope, profiles, creating a project Web site, build, deploy and test your JEE applications by Maven and more.

## Maven Basics

- Introduction
- Packaging of Resources
- Using Maven Plugins
- Creating Applications with Maven
- Setting Up an Application Directory Structure
- Project Inheritance
- Dependency management
- Dependency Scope
- Snapshots
- Maven version conflict resolution
- Maven Build Life Cycle
- Profiles
- Deployment
- Creating a Web Site

# Maven Basics - Building J2EE Applications

- Building JEE Applications by Maven
- Directory structure / modules
- EJB project and deploying
- Web project and deploying
- EAR project and deploying
- Web Services client project
- JEE Testing
- Developing Custom Maven Plugins

# ONE DAY INTENSIVE

1 day / 5K SEK

## Who can benefit from this type of courses?

Java and Java EE developers that are familiar with the concepts and have limited time to learn the techniques.

## Course details

### EJB 3.1

This is an one day intensive course built on the regular EJB 3.1 course. This hands-on course will show how easy and quickly you can build a complete enterprise application using EJB 3.1.

Most of the time we will focus on writing codes presented in easy-to-follow slides. All this during one day with lots of tips, tricks and live hands-on programming!

**A few slides and lots of hands-on programming.**

### Java Server Faces

This is an one day intensive course built on the standard JavaServer Faces course.

This hands-on course will show you how easy and quickly you can build a complete Web application using JSF 2.0.

Most of the time we will focus on writing codes presented in easy-to-follow slides. All this during one day with lots of tips, tricks and live hands-on programming!

**A few slides and lots of hands-on programming.**

### Spring

In this one day hands-on tutorial, attendees learn how to rapidly build Java EE application by Spring framework. This is a very compact introduction that will "inject" lots of Spring knowledge in short.

Most of the time we will focus on writing codes presented in easy-to-follow slides. All this during one day with lots of tips, tricks and live hands-on programming!

Attendees get introduction to:

- Spring Core 3.1 (Dependency Injection)
- Aspect-oriented programming (AOP)
- How to develop backend services using:
  - Java Persistence API (JPA) and Java Transaction API (JTA)
- You will also learn how easy you can develop Web applications using Spring MVC

**A few slides and lots of hands-on programming.**

# REFERENCES

**Folksam**



**altran**

**NSQ**



LUNDS UNIVERSITET

**Arbetsförmedlingen**

