

## Spring: Core Training (SCT)

**ID SCT** **Prix** CHF 3 960,- (Hors Taxe) **Durée** 4 jours

### A qui s'adresse cette formation

Application developers who want to increase their understanding of Spring and Spring Boot with hands-on experience and a focus on fundamentals.

### Pré-requis

Some developer experience using Java, an IDE (Eclipse, STS or IntelliJ) and build tools such as Maven or Gradle

### Objectifs

By the end of the course, you should be able to meet the following objectives:

- Spring configuration using Java Configuration and Annotations
- Aspect oriented programming with Spring
- Testing Spring applications using JUnit 5
- Spring Data Access - JDBC, JPA and Spring Data
- Spring Transaction Management
- Simplifying application development with Spring Boot
- Spring Boot auto-configuration, starters and properties
- Build a simple REST application using Spring Boot, embedded Web Server and fat JARs or classic WARs
- Implementing REST client applications using RestTemplate and WebClient
- Spring Security
- Enable and extend metrics and monitoring capabilities using Spring Boot actuator
- Utilize Spring Boot enhancements to testing

- Data Access and JDBC with Spring
- Database Transactions with Spring
- Spring Boot Introduction
- Spring Boot Dependencies, Auto-configuration, and Runtime
- JPA with Spring and Spring Data
- Spring MVC Architecture and Overview
- Rest with Spring MVC
- Spring Security
- Actuators, Metrics and Health Indicators
- Spring Boot Testing Enhancements
- Spring Security OAuth (Optional Topic)
- Reactive Applications with Spring (Optional Topic)

### Contenu

- Introduction to Spring
- Spring JAVA Configuration: A Deeper Look
- Annotation-based Dependency Injection
- Factory Pattern in Spring
- Advanced Spring: How Does Spring Work Internally?
- Aspect-oriented programming
- Testing a Spring-based Application

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### Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3  
CH-8304 Wallisellen  
Tel. +41 44 832 50 80

[info@flane.ch](mailto:info@flane.ch), <https://www.flane.ch>