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Course Name

Spring Professional Certification

Sector Name

Information Technology

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Course Introduction

This training course is designed to provide participants with the major features of Spring and Spring Boot, which includes configuration, data access, REST, AOP, auto-configuration, actuator, security, and Spring testing framework to build enterprise and microservices applications. Participants will learn the foundation for creating enterprise and cloud-ready applications and prepare them for the Spring Professional certification exam.

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Target Audience

- ✓ Cloud Computing Engineer
- ✓ Computer Network Specialist
- ✓ Computer Support Specialist
- ✓ Database Administrator
- ✓ Information Technology Analyst
- ✓ Information Technology Leadership
- ✓ Information Security Specialist
- ✓ Software/Application Developer
- ✓ Web Developer
- ✓ Technology sales consultant

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Learning Objectives

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

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Course Outline

✓ Day 01

Introduction to Spring

- ✓ Spring JAVA Configuration: A Deeper Look.
- ✓ Annotation-based Dependency Injection.
- ✓ Factory Pattern in Spring.

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Course Outline

✓ Day 02

Advanced Spring: How Does Spring Work Internally?

- ✓ Aspect-oriented programming.
- ✓ Testing a Spring-based Application.
- ✓ Data Access and JDBC with Spring.

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Course Outline

✓ Day 03

Database Transactions with Spring

- ✓ Spring Boot Introduction.
- ✓ Spring Boot Dependencies, Auto-configuration, and Runtime.
- ✓ JPA with Spring and Spring Data.

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Course Outline

✓ Day 04

Spring MVC Architecture and Overview

- ✓ Rest with Spring MVC.
- ✓ Spring Security.
- ✓ Actuators, Metrics, and Health Indicators.

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Course Outline

✓ Day 05

Spring Boot Testing Enhancements

- ✓ Spring Security Oauth (Optional Topic).
- ✓ Reactive Applications with Spring (Optional Topic).

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 28, 2026	Oct. 2, 2026	5 days	5950.00 \$	USA , Los Angeles
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Dubai
July 5, 2027	July 9, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
March 14, 2027	March 18, 2027	5 days	4250.00 \$	Qatar , Doha

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