



# Mecatredz Technology

Private Limited ,Lucknow

An ISO 9001:2015 Certified Company

Command Office : C-133/Sector-A Mahanagar Lucknow, - 226006

Email Address : [mtechnologylko@gmail.com](mailto:mtechnologylko@gmail.com)

Mobile Number : +91 8953422402,8874131209,7355769280,8090093151

Website Url : [www.mtechnologies.org](http://www.mtechnologies.org)

MECATREDZ TECHNOLOGY

## SPRING Training Syllabus

Visit Our Official website : [www.mtechnologies.org](http://www.mtechnologies.org)



## 1. Introduction to Spring

What is Spring

How Spring fits into the Enterprise world

Spring Modules

## 2. Spring Core(BasicConcepts)

What is a Core Container

- Introduction to IOC
- Types of DI
- Setter VS Constructor
- Resolving Constructor Confusion
- Collection DI
- Bean Inheritance
- Collection Merging
- Inner Beans
- Using IDRef
- Bean Aliasing
- Bean Scopes
- Inner Beans
- Null String
- Bean Auto wiring
- Nested Bean Factories

## 3. Spring Core (Advanced Concepts)

P – Namespace

- Dependency Check
- Depends On
- Factory Beans
- Static Factory Method
- Instance Factory Method
- Aware Interfaces
- Bean Lifecycle
- Method Replacement
- Lookup Method Injection
- Property Editors
- Bean Factory Postproces

## 4. Spring Core(3.0Annotations)



#### Spring VS Java Config Project annotations

- @Required
- @Autowired
- @PostConstruct
- @PreDestroy
- @Qualifier
- @Resource
- @Component
- @Service
- @Controller
- @Named

#### 4. Spring AOP

##### AOP Concepts

- Programmatic VS Declarative AOP
- Programmatic AOP
  - i. Types of Advices
  - ii. Types of Pointcuts
  - iii. Working with proxies
- Declarative AOP
  - i. Using AOP 2.0 Config element
  - ii. OGNL Expressions
- Aspect J AOP

#### 5. Spring JDBC

##### What is DAO pattern?

- Ways to implement Spring DAO
- Choosing an approach for JDBC database access
- JDBC Template
- Executing Statements
- Running Queries
- SQL Parameters

#### 6. Spring MVC

##### Spring 3.0 features

- Introduction to Spring MVC
- Handler Mapping
- Controllers
- Validations
- Handler Interceptors
- Views
- Form tags

#### 7. Spring ORM



Integrating with Hibernate

- Creating and Injecting Hibernate Session Factory
  - Managing Transaction
8. Project on Spring with JDBC/Hibernate

