

SPRING

STAR INFINITY TECHNOLOGIES

S.NO	Topics Detailed	Content
1	Introduction to Spring	» What is Spring » How Spring fits into the Enterprise world » Spring Modules
2	Spring Core (Basic Concepts)	» Theory/Practical • 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)	» Theory/Practical • 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 (3.0 Annotations)	» Theory/Practical • Spring VS Java Config Project annotations • @Required • @Autowire • @PostConstruct • @PreDestroy • @Qualifier • @Resource • @Component • @Service • @Controller • @Named » Various Annotation based Post Processors (AutowiredAnnotationBeanPostProcessor, CommonAnnotationBeanPostProcessor, PersistenceAnnotationBeanPostProcessor, RequiredAnnotationBeanPostProcessor)
5	Spring AOP	» Theory/Practical • 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
6	Spring Tx	» Theory/Practical • Aop 2.0 Configuration driven Transaction Management • Aspect J annotation based Transaction Management

7	Spring JDBC	» Theory/Practical • What is DAO pattern? • Ways to implement Spring DAO • Choosing an approach for JDBC database access • JDBC Template • Executing Statements • Running Queries • SQL Parameters
8	Spring MVC	» Theory/Practical • Spring 3.0 features • Introduction to Spring MVC • Handler Mapping • Controllers • Validations • Handler Interceptors • Views • Form tags
9	Spring ORM	» Spring Integration with ORM • Integrating with Hibernate • Creating and Injecting Hibernate Session Factory • Managing Transaction
10	Q & A	» Question and Answers