



## Java Online Master Program



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**Spark Databox** is known to be a pre-eminent platform for software certificate training and career development. Through our mission, we are a pioneer or positive change, improve productivity, increase the workforce, and creating a career opportunity for everyone. We are India's #1 software training institute. Apart from receiving excellent live training you will also receive free self-paced video courses, training materials, placement support, mock interviews and many more.

## Program Key Features

- ❖ 100% Practical training
- ❖ Experienced Trainers
- ❖ 100% Placement assistance
- ❖ Small batch size
- ❖ Customized training content

- ❖ Real-time project training
- ❖ Fully equipped cloud lab
- ❖ 100% Customer support
- ❖ 100% Money back guarantee

## About Course:

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**Java** is now leading the crowd in the business back-end, and the Android mobile application development peddles. The future will be promising for Java when you analyze the integration of modern language features. Java is one of the primary programming languages used for developing applications. Spark Databox online training will train the candidates to reach the demands and expectations of the current business industry with placement support. You will get complete knowledge on fundamental concepts of Java encompassed with J2EE, an independent java centric platform training which makes you deal efficiently with real-time projects.

With Spark Databox Java online training course, you will gain in-depth knowledge of the concepts including but not limited to the following:

- Java OOPs concept
- Java Array
- Java Loops
- Java Functions
- Java Collections
- Java Thread
- Java Servlet
- Web Services

During the completion of this training, you will be well versed to develop your own applications.

## Contents

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### Section 1: JAVA introduction

- Introduction to java
- Features of java
- Java components
- Conditional logic
- Loops
- Identifiers
- Java Keywords
- Operators

- Data types in java
- Functions
- Single dimensional arrays
- Multi dimensional arrays
- Object arrays
- Oops(object oriented programming language)
- Objects
- Constructors
- Constructors types
- Inheritance
- interface
- Encapsulation
- Abstractions
- Object and object reference
- Function overloading, Function overriding
- Constructor overloading ,Overriding
- Exceptions handling
- Hierarchy of exceptions
- Exception keywords
- Throw and Throws
- Final and Finally
- Modifiers
- Packages
- Collections
- Collections Hierarchy
- Property file
- Strings
- Text file handling
- Xls file handling
- Jars
- Log4j

## Section 2: Packages

- Predefined packages - Introduction
- Access Specifiers
- User Defined Packages

## Section 3: Object-Oriented Programming Concepts

- Introduction to OOPS concepts.
- Class
- Object

- Local, Instance and static variables
- Constructors
- "This" keyword
- Inheritance and its types
- Abstraction
- Abstract classes
- Encapsulation
- Super classes and sub classes
- Interfaces
- Polymorphism
- Dynamic binding
- Overloading
- Overriding

## Section 4: String Processing

- String manipulation with String Builder and String Buffer
- Essential String Methods

## Section 5: Exceptions and Assertions

- Introduction
- Exceptions categories
- Standard Java Exception classes
- Try-catch and finally clause

## Section 6: I/O Streams

- I/O using Java
- Files - Create, Read and, Write operations

## Section 7: Wrapper Classes

- Introduction
- Byte, Short, Integer, Long
- Float, Double
- Character
- Boolean classes

## Section 8: Collections

- Collections framework - Introduction
- util Package
- List, Set and Map
- Difference between all Collections Interfaces and classes
- Reading data from Property files
- Reading data from Excel files using Apache POI API and JXL API
- Writing data to Excel files using Apache POI API and JXL API

## Section 9: JSP (Java Server Page)

- JSP Example Tutorial for Beginners
- JSP Implicit Objects
- JSP Directives
- JSP Exception Handling
- JSP EL Tutorial
- JSP Action Tags
- JSTL Tutorial
- JSP Custom Tags
- JSP Interview Questions and Answers

## Section 10: Servlet

- Java Web Application Tutorial for Beginners
- Java Servlet Tutorial for Beginners
- Servlet Session Management
- Servlet Filter
- Servlet Listener
- Cookies in Servlet
- Servlet Exception Handling
- Servlet Upload Download File Example
- Servlet 3 File Upload using MultipartConfig annotation and Part interface
- Servlet Database Connection and Log4j integration
- Tomcat DataSource JNDI Example
- Servlet Web Application Spring Security Integration
- Hibernate Servlet DataSource Example
- Async Servlet

## Section 11: Spring Boot

- Spring Boot - Code Structure

- Beans and Dependency Injection
- Spring Boot - Runners
- Spring Boot - Application Properties
- Spring Boot - Logging
- Spring Boot - Building RESTful Web Services
- Spring Boot - Exception Handling
- Spring Boot - File Handling
- Consuming RESTful Web Services
- Spring Boot - Sending Em
- Spring Boot - Web Socket

## Section 12: Hibernate

- Hibernate - Architecture
- Hibernate - Environment
- Hibernate - Configuration
- Hibernate - Sessions
- Hibernate - Mapping Files
- Hibernate - Mapping Types
- Hibernate - O/R Mappings
- Hibernate - Annotations
- Hibernate - Query Language
- Hibernate - Caching

## Section 13: Struts

- Basic MVC Architecture
- Struts 2 - Environment Setup
- Struts 2 - Architecture
- Struts 2 - Configuration Files
- Struts 2 - Actions
- Struts 2 - Interceptors
- Struts 2 - Results & Result Types
- Struts 2 - Value Stack/OGNL
- Struts 2 - File Uploads and DataSource
- Struts 2 - Sending Email and Validations Framework
- Struts 2 - Annotations

## Section 14: Real-time project

- Java project environment setup
- Real-time Java project

- Project demonstration
- Expert evaluation and feedback

## You made it!!

Post completion of Java Online Course, a proper orientation for placements is done. With this training from experienced trainers, as professionals, you will be equipped with different proficiencies. This is a chance to open up and widen your prospects.

- Spark Databox Java course certification
- Interview preparation
- Mock interviews
- Resume preparation
- Knowledge sharing with industry experts
- Counseling to guide you to a right path in Java development career



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