

Java and J2EE

Java Training in Chennai

BITA Academy offers Best Java Training in Chennai that will cover the complete Java Platform and offer skills to develop in Java Run time environment. Call us if you need to attend demo for our Java Course in Chennai from Top Professional Certified Trainers. You will learn Core Java, J2EE, Hibernate and Spring Boot with real time projects from the Best Java Training Institute in Chennai.

Best Java Training in Chennai

Java is in great demand among software professionals and it is important that you complete Best Java Training Course in Chennai. You will learn to develop Java apps from our Java Training and will be ready to work in any environment that rely on Java. Our Java experts prepared the Java Syllabus that covers Java, J2EE, spring and Hibernate to certify as Java Developer. So complete our Java certification training and get familiar with data types, arrays, multithreading etc. Java Micro Edition is a subset of JRE and it is widely used in Internet of Things. You will learn more about it in our hands on training program and you will have real time project assignments in our training. Many Students enroll for Java Programmer Certification once they complete the Java Course.

Java is a program and it has things like syntax, data types, control flow, inheritance etc. And the recent survey list Java as one of the important skill for Data Scientist who will work on Big Data. JRE and JDK are the key things to learn in Java world, which is essential to run Java apps. Java is not a low level language like C, C++ but it uses an abstraction called byte codes, which is platform independent. And Java Run Time Environment provides what we need for a display codes to execute in any host environment. All these concepts will be discussed in our Java Training in Chennai.

Why is Java Training important for Software Professionals?

Mobile developers has a great respect on Java as it is widely used by many professionals to develop android based apps. The idea of stream in Java to represent an ordered sequence of data is excellent. Java is Object Oriented and very easy to learn, write and compile a program. Java is stable and Platform independent, which has large active community. You have to complete the Java Training in Chennai first to realize the benefits of Java. Our Java Training Institute will help you to learn dev tools like Eclipse and SDK, which has debug feature. As Per Oracle's latest statement, we have more than 3 billion devices that runs Java app on the dev platform. Java is used in many enterprises as it is used to develop embedded systems and many enterprise apps.

Java is the base for network apps and our Java Training Institute in Chennai will help you know the importance of it. And it is a practical oriented real time training and we offer Placement assistance for our trainee. You have to learn the Java Course from our industry experts to be a certified Java Developer. Java language is updated at regular interval and its latest version is Java 13, which was released in 17th Sep 2019. Another important feature of Java is its security and that is the key area to focus for a software developer.

BITA Academy ☐ Best Java Training Institute in Chennai

Once you complete our Java Training course in chennai, you will gain enough confidence to work in real time projects.

We offer Best Java Training with placement assistance for students who wants to learn it in interactive mode. This is one of the reason, we have been rated as the Best Java Training Institutes in Chennai.

Our trainer teaching skill is excellent and they are very polite when it comes to clearing doubts.

We conduct mock test that will be useful for your Interview Preparation.

You will get lifetime support from us even after you complete the Java course in Chennai.

We have a knowledge of the IT market and our Java training course content is in line with latest trend.

In addition, anyone who looks for a career in Java field shall contact us anytime.

Java Certification and Exams

We Provide certificate for all students after completion of Java Training. Your resume will have an extra value add if you have a Java course completion certificate from us or from any of the reputed Java training institute in chennai. Oracle Certified Java Certification helps developers to make them learn the skill to develop software using Java. Oracle

verifies if you have the right knowledge of Java by conducting exams. And this helps software developers to improve their skills, which is not an easy task. Oracle has different level of certifications and we will explain about it in our Java Training Sessions in Chennai. Professionals will apply for jobs once they clear the exam and many of our students were placed in top enterprises with good salary as certified Java Developer.

So this type of exams creates interest for software professionals to learn Java program in a short period of time. Java SE 13 Syllabus covers most important concepts of Java which includes Garbage collectors, Java DB Connectivity, concurrency etc. We recommend our students to complete the basic exam once they complete our Java Training in Chennai. And this is one of the reason BITA Academy is the top rated institute for Java Training Course in Chennai Velachery. It is not important to get a job but this Java Certification adds more value to your resume. HR will shortlist your profile from set of profiles since you have completed this exam.

#### List of Java Certification

We would request you to focus on the following Java Certification once you complete the Java Training in Velachery.

Oracle Certified Associate (OCA)

Oracle Certified Professional (OCP)

And Oracle Certified Expert (OCE)

Oracle Certified Master (OCM)

Java Training with Placement Assistance

BITA Academy offers placement support for freshers and software professionals who look for a job in IT companies. We help our students from the start once they enroll for the Java Course. And We discuss with each one of our student to find their strength and weakness. We create the student's profile based on the discussion we had with the students. Our trainers share the Java Interview Questions and Answers for students to do the work out. We conduct mock test at regular intervals and our trainers will discuss the answers with logic to gain confidence for our students. Special aptitude class is done for college students and freshers that will help them to clear the first round of interview. Call us if you want to know more about Java Course fees in Chennai. Group Discussion and Mock Interview is conducted for our students to get rid of stage fears.

#### Job Opportunities in Java

There are lot of offers for Java Programmers and we will give you an overview on the current trend in our training Programs. Java is everywhere and it is easy to learn the Java Programming. It is evergreen in IT Sector and they have developed many complex products using Java. Java has various features such as Java Applets, Java Beans and has an inbuilt garbage collection. Enterprises look for professionals who has knowledge on J2EE with other skills to get a good salary package. If you gain extra skills with Java, you can apply for mobile app developer or Java UI Developer position. Java developers play an important role in IT transformation and it is important for you to learn this course from Best Java Training Institutes in Chennai Velachery.

#### Java Training Course Syllabus

##### Core Java Syllabus

##### PART 1: An Overview of Java

Why do we need to use Java?

Do you know about Two Paradigms?

Different Java Versions

How is Java different from other skills?

Features of Java

How to install Java?

What is Java Virtual Machine (JVM)?

Difference between JDK, JRE and JVM

Deep Dive on Java Architecture

What do you know about Java Bytecode?

Text Editors

Consoles

PART 2: How to write a simple Java Program

Deep Dive on Java Program Dev

What do you know about Java Source File Structure?

Difference between compilation and execution

How to rectify common errors?

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Keywords

What do you know about literals and comments?

Deep Dive on Command Line Arguments

PART 3: Program Basics

Data Types

Difference between Primitive and Non Primitive Data Types

How to initialize and declare Variable?

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Operators

Different Types of Operators

PART 4: Deep Dive on Loop Structure and Control Statements

If

If Else

Nested If

Else If

How to use SWITCH and CASE Statement?

Break

Continue

For

While

Do While

Nested Loops

PART 5: Basics of Object Oriented Program

What is OOps?

Benefits of OOps

Oops Design with real time examples

Deep Dive on three OOps Principles

Class

Object

Relation between Class and Object

How to create class and Object?

Deep Dive on User Defined Data Types?

What do you know about custom Data Types?

PART 6: Deep Dive on OOps

What do you know about class components?

Different Types of Variables

How do we use Variables?

Multiple ways to initialize the object

This Keyword

Difference between static and instance block

What do you know about Nested Classes?

PART 7: Inheritance

What is Inheritance?

Benefits of Inheritance

Different Types of Inheritance

Single Inheritance

Deep Dive on Multilevel Inheritance

Difference between Multiple and Hierarchical Inheritance

Deep Dive on Hybrid Inheritance

Difference between IS-A and HAS-A relationship

How to use Super keyword?

PART 8: Abstraction

What do you know about Abstraction?

Benefits of Abstraction

Abstract Keyword

How to implement Abstract Methods?

Benefits of Abstract Classes

What is Interface?

Benefits

Implements Keyword

How to achieve multiple inheritance with interface?

Difference between Abstract Class and Interface

PART 9: Polymorphism in our Java Training

What is Polymorphism?

Benefits

Different Types of Binding

What is Method Overloading?

Benefits

Deep Dive on overloading conditions

What do you know about method overriding?

Difference between overloading and overriding

What do you know about class casting?

Design Patterns

PART 10: Encapsulation and Packages

What do you know about Packages?

Benefits

Different Types of Packages

Static Import

Access Modifiers

Deep Dive on Encapsulation

PART 11: Arrays and Strings

What is Array?

Use of Arrays

Different Types of Arrays

What do you know about Jagged Arrays?

String  
String Buffer and String Builder  
PART 12: Exception Handling

What is Exception?  
Different Types of Exception  
How to handle Exceptions?  
Multiple Catch block  
Finally Block  
Difference between throw and throws  
Custom Exception  
PART 13: More about OOps  
What do you know about Varargs?  
Enum Type  
Annotation  
Custom Annotation  
Different Types of Custom Annotation  
Assertion  
Object Class  
Wrapper Class  
Java Recursion  
PART 14: Package

Stream and its types  
How to read, write and copy files?  
What do you know about serialization?  
Deep Dive on Marker Interface  
Transient Keyword  
PART 15: Database

What is DB?  
What is MySQL?  
Parts of MySQL  
What do you know about operators and clauses in MySQL?  
Deep Dive on Functions and Procedures in MySQL  
PART 16: JDBC

What is JDBC?  
Different Types of Drivers  
How to load the drivers?  
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Prepared Statement  
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Result Set  
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PART 17: Multithreading

What do you know about multithreading?  
Benefits  
What is Thread?  
Lifecycle of Thread

Thread Classes and Methods

What do you know about runnable Interface?

How to create Thread?

Do you know to work with multiple threads?

Deep Dive on Java Synchronization

What do you know about Interthread communication?

Dead Lock

PART 18: UTIL Package

Regular Expression

What do you know about String Tokenizer?

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Difference between Localization and Internationalization

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List, Set and Map Interfaces

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What is the difference?

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What do you know about generics in Java?

Different Types of Generics

Benefits of Generics

Limitations

Deep Dive on Custom Objects with Generic Collections

What do you know about sorting in collections?

PART 21: Networking and Swings

Basics of Networking

Deep Dive on Socket Program

Swings

What do you know about components in Swings?

Deep Dive on Events Handling

PART 22: Features of Eclipse

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Deep Dive on Debugging

Advanced Java Training in Chennai Syllabus

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How to load the drivers?

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PART 2: Servlet

What is Web Application?

CGI

Servlet

What do you know Web Server and Container?

Deep Dive on HTTP Protocol

What do you know about Generic Servlet and HTTP Servlet?

Life Cycle of Servlet

Deep Dive on Servlet Work Flow

How to create War File?

PART 3: Deep Dive on Servlet

How to develop a servlet in Eclipse?

Deep Dive on Myeclipse

What do you know about GET and POST request?

Deep Dive on ServletConfig and ServletContext

Attribute in Servlet

What do you know about RequestDispatcher?

Session Tracking

What do you know about Hidden Form Field?

Cookie

HTTP Session

Deep Dive on URL Rewriting

Filters

What do you know about Annotation Servlet?

Single Thread Model

How to develop an app using Servlet?

PART 4: JSP

Difference between JSP and Servlet

JSP API

How to write JSP app?

Life Cycle of JSP

How to use JSP in eclipse?

Deep Dive on JSP Scripting Elements

What do you know about Implicit Object?

Deep Dive on JSP Directive Elements

JSP Exception

Action Elements

Expression Language

JSTL

JSP Custom Tag

MVC

How to develop an app using JSP?

How to develop an app using MVC?

Do you know to use Hibernate Config and Mapping file?

What is POJO? (Plain old java object class)

Hibernate API □ An Overview

## PART 5: Hibernate

Difference between Hibernate and JDBC

An Overview of Hibernate

Deep Dive on Hibernate Architecture

An Overview of ORM (Object Relational Mapping)

What do you know about Hibernate Resource?

How to create first Hibernate app?

Do you know to use Hibernate in Eclipse and MyEclipse?

How to use Hibernate app with CRUD Operation?

Deep Dive on Hibernate Query Language

Native SQL

Criteria API

What do you know about Hibernate Inheritance?

Table per Class

Table per Sub Class

What do you know about Table per Concrete Class?

Deep Dive on Caching

Difference between First level and Second level Cache

How to connect with multiple DB?

Do you know to integrate Hibernate with Servlet?

How to integrate Hibernate with Struts?

Do you know to integrate Hibernate with Spring?

How to work with Hibernate Annotations?

## PART 6: Struts

An Overview

Difference between Local and Global Exceptions

What do you know about Local and Global Forwards?

Deep Dive on Exception Handling in Struts

What do you know about DynaValidatorForm?

Different Types of Forms

Difference between Server and Client Side Validations

What do you know about validations in struts?

Deep Dive on Struts request process flow

What do you know about Struts Config file?

Action Class

Action Form

Web.xml

Deep Dive on ActionServlet

An Overview of Struts Resource

Different Types of App

Do you know about layers in an app?

Presentation Layer

Business Layer

Data Storage

Access Layer

Deep Dive on System Architecture

Web Application Model

Difference between Model 1 and Model 2 Architecture

## PART 7: Deep Dive on Struts

Deep Dive on Struts Architecture

HTML Tag Library



Bean Tag Library  
Logic Tag Library  
Nested Tag Library  
Tiles Tag Library  
Do you know to predefine Action Class?  
How to use Forward and Include Action?  
Dispatch Action  
Struts 2.X ☐ An Overview  
Deep Dive on Architecture  
What do you know Interceptors and Value Stack?  
Difference between Custom and Params Interceptor  
Difference between prepare and modelDriver Interceptor  
Deep Dive on Zero Configuration  
How to use SessionAware and ServletActionContext?  
PART 8: Spring

An Overview of Spring  
Spring Modules  
How to create a Spring app?  
Do you know to use spring in MyEclipse?  
How to use Spring in Eclipse?  
Spring Core Module  
Deep Dive on Dependency Injection  
What do you know IOC Container?  
Difference between Dependency and Constructor Injection  
Deep Dive on CI Dependent Object  
CI with Collection and Map  
What do you know about Setter Injection? (SI)  
Deep Dive on SI Dependent Object  
SI with Collection and Map  
Difference between CI and SI  
Deep Dive on Auto Wiring  
PART 9: Spring AOP

An Overview of AOP  
How to use SP AspectJ Annotation and XML?

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Java Training Course Syllabus

Core Java Syllabus

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Why do we need to use Java?

Do you know about Two Paradigms?

Different Java Versions

How is Java different from other skills?

Features of Java

How to install Java?

What is Java Virtual Machine (JVM)?

Difference between JDK, JRE and JVM

Deep Dive on Java Architecture

What do you know about Java Bytecode?

Text Editors

Consoles

PART 2: How to write a simple Java Program

Deep Dive on Java Program Dev

What do you know about Java Source File Structure?

Difference between compilation and execution

How to rectify common errors?

What do you know about lexical tokens?

Identifiers

Keywords

What do you know about literals and comments?

Deep Dive on Command Line Arguments

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Data Types

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How to initialize and declare Variable?

What do you know about Type Casting?

Operators

Different Types of Operators

PART 4: Deep Dive on Loop Structure and Control Statements

If

If Else

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Else If

How to use SWITCH and CASE Statement?

Break

Continue

For

While

Do While

Nested Loops

PART 5: Basics of Object Oriented Program

What is OOPS?

Benefits of OOPS

OOPS Design with real time examples

Deep Dive on three OOPS Principles

Class

Object

Relation between Class and Object

How to create class and Object?

Deep Dive on User Defined Data Types?

What do you know about custom Data Types?

PART 6: Deep Dive on OOPS

What do you know about class components?

Different Types of Variables

How do we use Variables?

Multiple ways to initialize the object

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Difference between static and instance block

What do you know about Nested Classes?

PART 7: Inheritance

What is Inheritance?

Benefits of Inheritance

Different Types of Inheritance

Single Inheritance

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Difference between Multiple and Hierarchical Inheritance

Deep Dive on Hybrid Inheritance

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How to use Super keyword?

PART 8: Abstraction

What do you know about Abstraction?

Benefits of Abstraction

Abstract Keyword

How to implement Abstract Methods?

Benefits of Abstract Classes

What is Interface?

Benefits

Implements Keyword

How to achieve multiple inheritance with interface?

Difference between Abstract Class and Interface

PART 9: Polymorphism in our Java Training

What is Polymorphism?

Benefits

Different Types of Binding

What is Method Overloading?

Benefits

Deep Dive on overloading conditions

What do you know about method overriding?

Difference between overloading and overriding

What do you know about class casting?

Design Patterns

PART 10: Encapsulation and Packages

What do you know about Packages?

Benefits

Different Types of Packages

Static Import

Access Modifiers

Deep Dive on Encapsulation

PART 11: Arrays and Strings

What is Array?

Use of Arrays

Different Types of Arrays

What do you know about Jagged Arrays?

String

String Buffer and String Builder

PART 12: Exception Handling

What is Exception?

Different Types of Exception

How to handle Exceptions?

Multiple Catch block

Finally Block

Difference between throw and throws

Custom Exception

PART 13: More about OOps

What do you know about Varargs?

Enum Type

Annotation

Custom Annotation  
Different Types of Custom Annotation  
Assertion  
Object Class  
Wrapper Class  
Java Recursion  
PART 14: Package

Stream and its types  
How to read, write and copy files?  
What do you know about serialization?  
Deep Dive on Marker Interface  
Transient Keyword  
PART 15: Database

What is DB?  
What is MySQL?  
Parts of MySQL  
What do you know about operators and clauses in MySQL?  
Deep Dive on Functions and Procedures in MySQL  
PART 16: JDBC

What is JDBC?  
Different Types of Drivers  
How to load the drivers?  
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Statement  
Prepared Statement  
Callable Statement  
Result Set  
Interfaces  
PART 17: Multithreading

What do you know about multithreading?  
Benefits  
What is Thread?  
Lifecycle of Thread  
Thread Classes and Methods  
What do you know about runnable Interface?  
How to create Thread?  
Do you know to work with multiple threads?  
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What do you know about Interthread communication?  
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PART 18: UTIL Package

Regular Expression  
What do you know about String Tokenizer?  
Deep Dive on Scanner and Date Classes  
Difference between Localization and Internationalization  
What do you know about Java Collections?  
PART 19: Collections Framework

What do you know about collection Interface?

List, Set and Map Interfaces

Cursors in Java

What is the difference?

PART 20: Generics

What do you know about generics in Java?

Different Types of Generics

Benefits of Generics

Limitations

Deep Dive on Custom Objects with Generic Collections

What do you know about sorting in collections?

PART 21: Networking and Swings

Basics of Networking

Deep Dive on Socket Program

Swings

What do you know about components in Swings?

Deep Dive on Events Handling

PART 22: Features of Eclipse

Difference between Default and Static method in an interface

What do you know about Functional Interfaces?

Deep Dive on Lambda Expression

Difference between collection and concurrency API Improvements

Deep Dive on Java I/O Improvements

How to work with Eclipse?

Deep Dive on Debugging

Advanced Java Training in Chennai Syllabus

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What is JDBC?

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PART 2: Servlet

What is Web Application?

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What do you know Web Server and Container?

Deep Dive on HTTP Protocol

What do you know about Generic Servlet and HTTP Servlet?

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How to develop a servlet in Eclipse?  
Deep Dive on Myeclipse  
What do you know about GET and POST request?  
Deep Dive on ServletConfig and ServletContext  
Attribute in Servlet  
What do you know about RequestDispatcher?  
Session Tracking  
What do you know about Hidden Form Field?  
Cookie  
HTTP Session  
Deep Dive on URL Rewriting  
Filters  
What do you know about Annotation Servlet?  
Single Thread Model  
How to develop an app using Servlet?  
PART 4: JSP

Difference between JSP and Servlet  
JSP API  
How to write JSP app?  
Life Cycle of JSP  
How to use JSP in eclipse?  
Deep Dive on JSP Scripting Elements  
What do you know about Implicit Object?  
Deep Dive on JSP Directive Elements  
JSP Exception  
Action Elements  
Expression Language  
JSTL  
JSP Custom Tag  
MVC  
How to develop an app using JSP?  
How to develop an app using MVC?  
Do you know to use Hibernate Config and Mapping file?  
What is POJO? (Plain old java object class)  
Hibernate API □ An Overview  
PART 5: Hibernate  
Difference between Hibernate and JDBC  
An Overview of Hibernate  
Deep Dive on Hibernate Architecture  
An Overview of ORM (Object Relational Mapping)  
What do you know about Hibernate Resource?  
How to create first Hibernate app?  
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Deep Dive on Hibernate Query Language  
Native SQL  
Criteria API  
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Table per Sub Class



What do you know about Table per Concrete Class?  
Deep Dive on Caching  
Difference between First level and Second level Cache  
How to connect with multiple DB?  
Do you know to integrate Hibernate with Servlet?  
How to integrate Hibernate with Struts?  
Do you know to integrate Hibernate with Spring?  
How to work with Hibernate Annotations?  
PART 6: Struts

An Overview  
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