FULL STACK
JAVA DEVELOPER

CERTIFICATION PROGRAM

ABOUT CHOOLS

Chools is an undisputed leader in the segment of employment linked training programs and IT certification with 21 years of rich experience and nationwide presence with over 198 centres pan India.
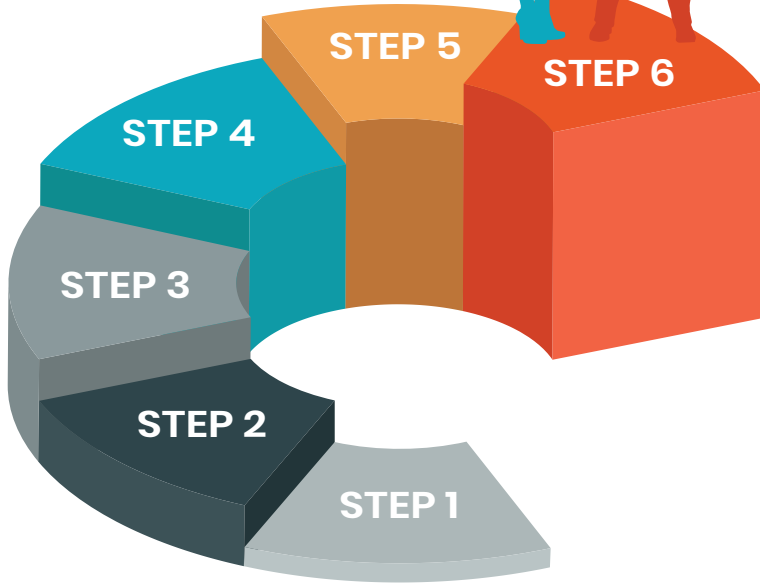
Chools is an ed-tech company that provides job guaranteed programs. Unlike traditional institutes, Chools provides concept visualisation using animations, tech-enabled world-class skilling ecosystem and the pure joy of learning.

Chools has emerged to be a strong force in nation-building by also partnering with the government of India, NSDC, NASSCOM, SKILL INDIA and many such esteemed bodies working in the grass-root level to make India the skill capital of the world.

Benefits of being a Full Stack Developer

EASILY HIRED

With a wide range of skillsets, Full Stack Developers are always high in demand.

HIGH PAY

Avg: 6.50 LPA - High: 23.64 LPA

ENORMOUS OPPORTUNITIES

With multiple skillsets, Full Stack Developers will constantly find rapid growth in their career.

JOURNEY
WITH US

STEP 5

STEP 6

STEP 4

STEP 3

STEP 2

STEP 1

1 GET ENROLL IN THE COURSE

4 ATTEND PLACEMENT DRIVES

2 CANDIDATE SCREENING

5 GET CERTIFIED

3 START LEARNING

6 GET PLACED & START WORKING

LEARNING TRACK

01
Learn Core Java
Be a master in language fundamentals & competitive programming

02
Learn Advanced Java
Learn to code on the server-side and create dynamic web pages

03
Learn Python
Get a wide range of opportunities to create your career in different specializations like Artificial Intelligence, Deep Learning, etc

04
Learn HTML /CSS/ Javascript
Master to design, style & interact with the web pages.

05
Learn MySQL
Understand the process of designing, managing, and handling structured data.

06
Learn Springs & Hibernate
Learn to integrate different third party APIs in your application

07
Build Project
Understand the complete process of building code, integrating modules, hosting an application, and maintaining it.

08
Practice Aptitude
Build your logical and reasoning skill to crack the interviews

09
Learn Interview Etiquette
Learn a set of manners that is accepted in a profession.

3 hours of the classroom
session on weekdays

Doubt Clarification
session

2 hours of hands-on
coding on weekdays

Talks from
industry
experts

Case Studies
solved on
every module

Mock interviews at
regular intervals

Daily
Assignments

Weekly
Assessments

A DAY/WEEK WITH US

TOOLS & TECH

python

CSS

HTML

B

Java

MySQL

eclipse   spring   HIBERNATE   Apache LOG4J

DETAILED SYLLABUS

Core Java:
Language Fundamentals
Data Types
Introduction Object orientation
Incrementation and decrementation
Pattern Programming
Arrays
Strings
String tokenizer
Methods
Method overloading
Constructor
Encapsulation
Static
Inheritance
Polymorphism
Access specifiers
Aggregation and Composition
Abstraction
Interface
Exception Handling
Multi-Threading
Producer-Consumer
Collection
Maps
Boxing & Auto Boxing
File Handling
Enum
Annotations

JDBC:
Introduction to JDBC
Communication with backend and database
Key Interfaces
Steps for installing MySQL
Connector
Property File
Update Query
Batch File
Dynamic queries

Transaction & Acid properties
Store procedure
In procedure
In-Out procedure
BLOB
CLOB
Meta-Data of ResultSet

Servlets, JSP & JSTL:
Introduction to Servlets
Difference between Web-Based and Distributed Application
Difference between Static and Dynamic response
Control flow of web.xml
Service methods
doGet and doPost method
welcome file list
set and getAttribute in Request Dispatcher
Forward() and Include() in Request Dispatcher
Send Redirect
Difference between Request Dispatcher and Send Redirect
Session management in java
Cookies in java
Servlet context and Servlet Config
Life Cycle of a servlet
Calling servlet using annotation
Filters
Filter Chaining
Introduction to JSP
Working of JSP Engine
JSP Tags
Implicit Objects of JSP
Handling Exception in JSP
JSTL Tags

Hibernate:

Introduction to Hibernate
Benefits of Hibernate
Explanation of Hibernate.cfg.xml File
The relation between hibernate and JDBC
Program to Update Multiple lines (using HQL)
CRUD Operations
Writing SQL Queries in Hibernate
Introduction to Mapping
1:1 Mapping
Property tag in 1:1 Mapping
Unidirectional and Bidirectional in 1:1 Mapping
Many-to-One Mapping
Multiple Programs using 1:1 Mapping and Many-to-One
Many-to-One Mapping (bi-direction)
Many-to-Many Mapping
Programs Using Joinable
Lazy Loading and Eager Loading
Lifecycle of Hibernate
Difference between get and load

Spring:

Feature of Spring, Spring Architecture, Inversion of Control
Dependency Injection (Constructor Injection, Setter Injection)
Bean Scope, Bean Lifecycle, IoC (annotation approach)
Constructor Injection, Setter Injection, Field Injection (annotation approach)
Bean Configuration using Java Code
Spring MVC Architecture, First MVC code
Configuration of Spring MVC
Control Flow of Spring MVC, Handler Mapping
RequestMapping
Data Transfer between Controller & View
RequestParam
RequestParam
SpringMVC Form Tag Library
SpringMVC Form Tag Library
Spring Validation

Python:

Interactive and script mode, OOPS principles
Data Types
Typecasting
Functions
Types of arguments
Modules
Command-line arguments
Operators
Loops
Break and continue statements
Lambda Functions
Filter, Reduce, Map
Global variable, Local variable
Recursion
Strings
Regular expression
Referential array
List Operations
List comprehension
zip(),all(),any(), join() functions.
Performance analysis of Data Types
Tuple
Set
Set Comprehension
Dictionary
Collection Module
OOPs
Instance and static variables
Decorators
Closures
Different Methods
Design Principles of OOPs
Encapsulation
Inheritance
Polymorphism
Aggregation & Composition
Abstraction
Duck Typing
Exception handling
Loggers
File handling
Generators
Process vs Thread
Multi-Threading
Python Database Programming

DETAILED SYLLABUS

HTML/CSS:
Introduction to CSS3,Basic Selectors
Working with Sizes, Colors and Files,
Styling Text
Web Fonts, Gradients without
Images
Advanced Selectors, Lists, and
Navigation Menus
Exploring Generated Content
Transforms and Transitions
Animating Elements with Keyframes
Styling Tables
Elements Positioning, Working with
Layouts
Multi-Column Layouts with CSS3
Dealing with Cross Browser Layouts
Media Queries, Print CSS3

BOOTSTRAP:
Introduction to Bootstrap framework
Bootstrap CSS
Bootstrap Layout Components
Bootstrap JavaScript Plugins
Using Bootstrap

MYSQL:
ER Diagrams
Constraints
Creating Database and Tables,
Inserting Data, CRUD Commands
CRUD, Basic queries
Refining our Selections- Like
Single row Functions
Aggregate Functions
Group by, Having, order by clauses
Sub Queries.
Joins
Set Operators
Normalization
Views, Index, Export, and Import
using Scripts.
Stored procedures, Triggers

JAVASCRIPT:
Introduction to web development
and JavaScript
JavaScript Essentials
JavaScript Essentials
DOM Scripting
DOM Scripting