



**TRAINING DURATION:  
200 HOURS**

# SKILLS BUILDING TRAINING

Join our training program to upgrade your skills and accelerate your career growth with confidence and excellence.

Real-World Industry Experience

Professional Networking Ecosystem

Experiential Skill-Based Training

Personalized Career Roadmapping



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# Full Stack Java Training Program

In today's rapidly evolving software engineering landscape, every business—from startups to enterprises—relies on scalable, secure, and high-performance applications.

The Full Stack Java Development Program is designed to equip learners with complete backend + frontend + database + deployment skills aligned with modern industry demands.

This program takes learners from absolute fundamentals to advanced enterprise development—covering Core Java, Java OOP, JDBC, Servlets, JSP, Spring Boot, Microservices, REST APIs, Hibernate, SQL, Git, JavaScript, HTML/CSS, and Angular/React.

Through hands-on coding, industry-level projects, and real-world assignments, students become job-ready Java developers capable of delivering modern full-stack applications.

Whether developing enterprise systems, microservices-based architectures, REST APIs, or front-end applications, students gain both technical and architectural mastery to thrive in roles like Java Developer, Backend Engineer, Full Stack Developer, and API Developer.

## About Company

Certed Technologies is a leading EdTech and corporate training organization committed to delivering industry-relevant, future-ready skill development programs. With a strong portfolio across IT, design, data, and emerging technologies, we collaborate with universities, colleges, corporates, and training institutes to deliver job-oriented training solutions.

**Mission:** To empower learners with practical, outcome-based training that enhances employability, creativity, and professional excellence in the digital economy.

# Market Scope – Full Stack Java & Software Engineering Industry

## Industry Overview

The global market for Java developers continues to grow with the expansion of:

- Cloud-native applications
- E-commerce & enterprise portals
- Banking & fintech systems
- Microservices and API-driven architectures
- Automation & digital transformation

Businesses require developers who can produce secure, scalable, and production-grade software systems.

## Career Opportunities

- Java Developer
- Full Stack Java Developer
- Backend Developer (Spring Boot)
- Microservices Engineer
- API Developer
- Software Engineer
- DevOps-Aware Java Programmer

# Key Benefits of the Program

## ✓ Industry-Aligned Curriculum

Structured modules covering Java Foundations, OOP, JDBC, Servlets, JSP, Spring Boot, Hibernate, Microservices, SQL, and Front-end frameworks.

## ✓ Hands-On Learning

Multiple mini-projects with a final Enterprise Application Capstone Project.

## ✓ Creative & Technical Integration

Backend (Java), Front-end (React/Angular), Databases (SQL), Deployment (Cloud/AWS), Git & CI/CD.

## ✓ Portfolio Development

Includes REST APIs, microservices, UI apps, MVC projects, deployments, and documentation.

## ✓ Certification Support

Eligibility for Java OOP Certification, Spring Boot Developer Certification, and Full Stack Developer Certification (institution-specific).

## ✓ Interview & Placement Skills

Resume building, coding assessments, debugging challenges, system design basics.

# Course Structure

## Module 1 – Programming & Development Fundamentals

### Topics:

- Software development basics
- Java installation & IDE setup (IntelliJ / Eclipse)
- Git & GitHub
- SDLC, Agile & Scrum
- Command Line + Build Tools (Maven/Gradle)

## Module 2 – Core Java (OOP & Advanced Programming)

### Topics:

- Data Types, Variables, Operators
- Control Flow
- OOP in Java – Classes, Objects, Polymorphism, Inheritance, Abstraction
- Exception Handling
- Collections Framework
- Generics
- Java I/O
- Streams & Lambda Expressions (Java 8+)
- Multithreading
- Mini Project: Student Record Management System

## Module 3 – Database Engineering + JDBC

### Topics:

- SQL Basics
- JOINS, Constraints, Stored Procedures
- Database Design (ER Model)
- JDBC Connectivity
- Prepared Statements
- DAO Pattern
- Mini Project: Employee Payroll Database System

## Module 4 – Web Fundamentals (Front-End)

### Topics:

- HTML5, CSS3, Bootstrap
- JavaScript Essentials
- Responsive layouts
- Client-Server Architecture
- Mini Project: Front-end UI for Java Application

## Module 5 – Java EE – Servlets & JSP (Web App Development)

### Topics:

- Servlet Lifecycle
- doGet(), doPost()
- Filters & Sessions
- JSP directives & expressions
- JSP MVC
- JSTL
- Mini Project: Student Enrollment Web Portal

# Module 6 – Spring & Hibernate (Enterprise Development)

## 1. Spring Core

- IOC/DI
- Spring Beans
- AOP

## 2. Spring MVC

- Controllers
- Routing & Views
- Form Handling

## 3. Hibernate ORM

- Entity Mapping
- HQL
- Caching

**Mini Project:** Spring MVC + Hibernate CRUD App

# Module 7 – Spring Boot (Modern Backend Development)

## Topics:

- Spring Boot Auto Configuration
- REST API Development
- Request/Response Lifecycle
- DTO, Services, Repository Pattern
- Spring Security Basics
- Input Validation
- Mini Project: REST API for E-Commerce App

## Module 8 – Microservices Architecture

### Topics:

- Microservices Concepts
- Spring Cloud
- API Gateway
- Config Server
- Eureka Service Discovery
- Inter-Service Communication
- Mini Project: Microservices-based Order Management System

## Module 9 – Front-End Framework (Angular / React)

### Topics:

#### **Angular Track:**

Components

Modules

Routing

Services

Forms

API Integration

**OR**

#### **React Track:**

JSX

Components, Props & State

Hooks

Routing

API Integration (Axios/Fetch)

Mini Project: UI Dashboard integrated with Java REST APIs

# Module 10 – DevOps, Deployment & Cloud

## Topics:

- Maven Build
- Tomcat Deployment
- Docker Basics
- Cloud Deployment (AWS / Azure)
- CI/CD (GitHub Actions Pipeline)
- Deployment Project: Spring Boot App on AWS EC2

## Final Capstone Project

### Enterprise Full Stack Application (End-to-End)

#### **Includes:**

- UI (Angular/React)
- Backend (Spring Boot REST API)
- Database (MySQL/PostgreSQL)
- JWT Authentication
- Logging + Exception Handling
- Docker Containerization
- Cloud Deployment

## Outcomes of the Program

 **Job-Ready Java Developers**

 **Enterprise Project Execution**

 **Strong GitHub Portfolio**

 **API & Microservices Expertise**

 **Full Stack Deployment Skills**

 **Interview & Placement Readiness**

## Career Roles After Completion

 **Full Stack Java Developer**

 **Backend Developer**

 **Software Engineer**

 **Java API Developer**

 **Microservices Developer**

 **Freelance Industries**

THANK YOU!



# Contact Us

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