

# Java Bootcamp (Full Stack Web with Angular)

Our Java Bootcamp (Full Stack Web) training course is the best way to start your computer programming career. We focus on practical employment skills to enter the job market. Java is not just a programming language. It's a part of our digital lifestyle. And a lifelong career for anyone who masters it. This Java Bootcamp training course / internship will put your programming career in the fast lane. It is a [Full Stack Web Developer Bootcamp](#) covering the practical skills in the front and back-ends.

What is a Full Stack Web Coding Bootcamp? – [Read here](#)

What is Java? – [Read here](#)

## Start right with our Full Stack Web Java Coding Bootcamp (with Angular)

Java is a technical language with a vast number of functions. As a junior Java developer, you don't need to master them all – that would take years. But you do need to know where to start and the basics required by prospective employers before they'll hire you. Many learners get needlessly lost in Java's complexity.

Code College's Java Bootcamp is designed to teach you the must-know Java essentials that will prepare you for your first day on the job. You'll get:

- Expert tuition from qualified lecturers under the leadership of Arnold (the lead lecturer) (BSc Computer

Science with Honours) backed by 30 years software development industry and training experience

- Study materials with all the information you need and loads of helpful hints
- Practical projects that allow you to cut your teeth on typical development scenarios
- Preparation and registration advice for international certification (Oracle Certified Associate Java exam and Oracle Certified Professional Java exam)
- Simulated exams to test your readiness before sitting for certification
- Hints and tips for successful job interviews
- Automatic absorption into Java Internship program at our holding company, Compuways
- **Support available every day (face-to-face)**, including Saturdays by appointment – remember we even support you after the initial 6 months to complete outstanding projects and to prepare for the Oracle Exam.

## Admission Requirements

- Matric with IT Programming **or**
- our [Intro to Programming course](#) (There is an [entry test](#) on for this course)

**Please note:** While a good math pass is recommended, the combined requirements determine acceptance to the course. We encourage candidates to prove themselves by completing an aptitude test (R350) or do the [Intro to Programming Course](#) and attend a personal interview with us.

## Study Loans Available

Having trouble financing your studies? Qualifying candidates (will also have to write an aptitude test) can apply for a student loan to repay some of their fees once employed. Please

read our application procedure for more details.

[Apply for bursary / sponsorship](#)

## Course Contents

Practical assignments / tests to complete in between modules are intended to consolidate your module's knowledge into a practical solution. Upon successful completion of such a practical project, you will also get a competency certificate for that module.

(NB: please enquire if you must to do the [Intro to Programming](#) module first or not). This means you have already knowledge and skills on par with the [www.w3schools.com](http://www.w3schools.com) tutorial in terms of HTML / CSS and [Javascript and you can pass the Intro To Programming Test](#)

<a href="#">Beginner Java</a>	Java SE Fundamentals (OCA) – This module focus on the building blocks of a modern Object – Oriented language. How to solve a business problem by using OO design , effectively.
<a href="#">SQL</a>	Design a small relational database, normalised to improve efficiency and eliminate data duplication. use UML to represent your model and document it. Be able to use SQL with it.
<a href="#">Advanced Java</a>	Java SE Fundamentals (OCP) – The additional Java features to enable us to build solutions, whether they are basic, console, GUI, I/O / Networking driven. Buid a GUI-based , DB CRUD app in Java.
<b>Spring REST API</b>	Build a REST API in Spring that can be used by any front-end Framework that can consume REST services.

<b>Angular</b>	Use the very popular and widely used Javascript framework to build a state-of-the-art app.
<b>Spring JHipster / Angular Integration</b>	Build a full-stack web app using Spring REST for the back-end and Angular in the front-end, using JHipster.

As your final project, you build a web-app based on an angular front-end and a Java Spring API backend. It covers all topics that you have learned on the java bootcamp and will be your first project in your new portfolio of projects. It is based on Spring Framework and covers:

- Spring / REST
- Angular

We do not focus on the beautification of your pages, but encourage and support you to learn JavaScript, Bootstrap, HTML5, CSS3 for that. A great deal of JavaScript was already taught to the guys who attended our [Intro to Programming](#) course.

## Course Duration

Java Bootcamp can be completed in 6 months or less, depending on the time and effort you are able to put in.

- Each module is 5 days of classroom lectures; related projects to be completed the following week on campus (or at home with support offered on Google Hangout or Skype)
- Weekly project progress sessions are held to support bootcamp students
- We have electronic groups and forums to encourage group communication in between modules, wherever students are.

# Do I have to resign my Job to do the Java Bootcamp?

No, not if you are able to attend one week per month in the classroom. The next 2/3 weeks are for assignments and it is not required to be in the classroom every day. [Read Edwin's journey](#) .

## Job placement and pass rate of close to 100%



Companies are begging us for Java skills. Code College works with sister company Compuways IT Recruitment to find you employment after graduation. We have hundreds of IT employers on record and standing orders for Java developers. And every graduate from us that were looking for employment, was placed, if not by Compuways, then by other recruiters who network with us. This is to show that we are very serious about what we do and that your success is our goal.

## Job Internship

The most common reason for not employing juniors, is lack of 'on-the-job' skills. We do not leave our students alone until they are employed. Any unemployed Java bootcamp students are automatically absorbed in our Internship program – actually from the first day you are in the bootcamp, you are an intern with our holding Company, Compuways. After the bootcamp you are assigned more practical projects.

- During the internship you will be monitored and supported to further build your 'on-the-job' skills, like:

- Getting and administering your own Linux Server
- Installing, maintaining Java, MySQL, Tomcat, Webadmin on your Linux VP Server
- Deploying your own software applications on your Linux VP Server
- Participating on our real client software development projects

Preparing for Java/OCA Exam	
Preparing for Java/OCP Exam	

# Pricing

## Full-time course

Java Bootcamp:

1. Normal price is : **R66,990**
2. Pre-paid price is : **R57,970** ← most popular!!
3. Prices exclude Vat

## Part-time studies

The same price applies for part-time

If you are working and cannot attend full-time, Tuesday and Thursday evenings are for part-time students.

Part-time students should also try and attend the Wednesday evening workshops.

# Bootcamp Group discounts

Corporates – book more than one student on a 6 month (full-time) bootcamp (normal price s R60 000). (Student has to attend class only 1 week per month – in between homework meetings are done via Google Hangouts ).

# Online / Distance Learning

The Java Bootcamp is also available in a [distance learning](#) format on request.

## Certification exams covered

Oracle exams are not included in the course price – they are payable to Oracle.

Here is an example of an [oca-certificate](#) .

**ORACLE**

Certified Associate

Oracle Certified Associate Java Exam : Approx. R2500 excl VAT .

**ORACLE**

Certified Professional

Oracle Certified Professional Java Exam : R2500 excl VAT

## Java Bootcamp Competency Certificate



(All our certificates can be added your LinkedIn profile to enhance your marketability)



Java Bootcamp Training  
Course Booking

**(Remember this course is under category *Bootcamps*)**

**Don't wait! Put your software development career into the fast lane today.**

**BOOK YOUR JAVA BOOTCAMP NOW**

Need more information? [Click here](#)

## Course Dates

See the calendar below

## Venues

Our primary venue is **Johannesburg**, but we also schedule it in **Cape Town** on demand. if you are in Cape Town and interested, please [notify us immediately](#).

## Further training

How about going learning more about Progressive Web Apps with a mobile framework like Flutter / Dart?

Want to stay with Java and get certified in Spring Framework? Then do the [Spring Core Certification Bootcamp](#) .

Java Bootcamp 2018 Core Modules

For the full-time students, these are the core modules that you must be in the classroom. In between these modules,



students can work from home or at the college, whichever suits you best. We engage home-working students via Google Hangouts/Google Meeting. We also have chat groups and forums to make sure students that are working from home can connect to their peers wherever they are, 24/7. We have compulsory such meetings at least once a week and also tests are conducted regularly, either in the classroom or via screen sharing technology.

<b>IProg</b>	<b>JBeg</b>	<b>SQL</b>	<b>JAdv</b>	<b>Spring MVC / REST</b>	<b>Angular</b>	<b>Spring Boot / JHipster</b>
1-5 Oct 2018 19-23 Nov 2018 17-21 Dec 2018 14-18 Jan 2019	<b>11-15 Feb 2019</b>	<b>11-15 Mar 2019</b>	<b>1-5 Apr 2019</b>	<b>29 Apr – 3 May 2019</b>	15-19 Oct 2018 12-16 Nov 2018 10-14 Dec 2018 21-25 Jan 2019 <b>27-31 May 2019</b>	<b>24-28 June 2019</b>

## Save this page

Keep this information handy. Download a pdf copy of this page by clicking on the pdf icon at the bottom of the page.

# Testimonials / Success

# Stories

Read our some of our [success stories](#) and more [success stories](#)

[From Administrator To Java Developer – A Life-Long Dream Come True!](#)

[Matriculant Launches Programming Career With Loan](#)

[Veteran Programmer selected Java Bootcamp for his son](#)

[Why I studied the Java Bootcamp and would like to recommend it](#)

[Java Job Prep Student passes OCA Exam on first try ! ....](#)

[How long does it take to pass an international exam in Java?](#)

---

## Spring Core Certification Bootcamp

This Spring Core Certification Bootcamp covers the Spring Framework from start to end and at the same time preparing you for the Spring 5 Core Certification Exam. We cover the international syllabus from various angles, using books, videos and finally mock-exams.

### Prerequisites

[Java Bootcamp](#) or you must demonstrate your practical ability with a project on par with our Java Bootcamp's practical standard – see our [example app.](#) (or email us if the link is not working).

### COURSE CONTENTS

We cover the following topics from various angles, using books, videos and finally mock-exams

## **SPRING INTRODUCTION**

- Java configuration and the Spring application context
- @Configuration and @Bean annotations
- @Import: working with multiple configuration files
- Defining bean scopes
- Launching a Spring Application and obtaining Beans

## **SPRING JAVA CONFIGURATION: A DEEPER LOOK**

- External properties & Property sources
- Environment abstraction
- Using bean profiles
- Spring Expression Language (SpEL)
- How it Works: Inheritance based proxies

## **ANNOTATION-BASED DEPENDENCY INJECTION**

- Autowiring and component scanning
- Java configuration versus annotations, mixing.
- Lifecycle annotations: @PostConstruct and @PreDestroy
- Stereotypes and meta-annotations

## **FACTORY PATTERN IN SPRING**

- Using Spring FactoryBeans
- The Spring Bean Lifecycle
- The BeanFactoryPostProcessor interception point
- The BeanPostProcessor interception point
- Spring Bean Proxies
- @Bean method return types

## **TESTING A SPRING-BASED APPLICATION**

- Spring and Test Driven Development
- Brief overview of JUnit 5
- Spring 5 integration testing with JUnit 5

- Application context caching and the `@DirtiesContext` annotation
- Profile selection with `@ActiveProfiles`
- Easy test data setup with `@Sql`

## **ASPECT-ORIENTED PROGRAMMING**

- What problems does AOP solve?
- Differences between Spring AOP and AspectJ
- Defining pointcut expressions
- Implementing an advice: `@Around`, `@Before`, `@After`

## **DATA ACCESS AND JDBC WITH SPRING**

- How Spring integrates with existing data access technologies
- `DataAccessException` hierarchy
- Implementing caching using `@Cacheable`
- Embedded databases for testing
- Spring's `JdbcTemplate`

## **DATABASE TRANSACTIONS WITH SPRING**

- Transactions overview
- Transaction management with Spring
- Isolation levels, transaction propagation and rollback rules
- Transactions and integration testing

## **JPA WITH SPRING AND SPRING DATA**

- Quick introduction to ORM with JPA
- Benefits of using Spring with JPA
- JPA configuration in Spring
- SPRING BOOT
- Using Spring Boot to bypass most configuration
- Simplified dependency management with starter POMs
- Easily overriding Spring Boot defaults

## **SPRING JPA**

- Configuring Spring JPA using Spring Boot
- Spring Data JPA dynamic repositories

## **SPRING IN A WEB APPLICATION**

- Configuring Spring in a Web application
- Introduction to Spring MVC, required configuration
- Controller method signatures
- Views and ViewResolvers Using @Controller and @RequestMapping annotations
- Configuring Spring MVC with Spring Boot
- Spring Boot packaging options, JAR or WAR
- Going beyond the default settings
- Customizing Spring Boot configuration
- Logging control
- Configuration properties using YAML
- Boot-driven testing

## **SPRING SECURITY**

- What problems does Spring Security solve?
- Configuring authentication and intercepting URLs
- Spring Security support for server-side rendering
- Security at the method level
- Understanding the Spring Security filter chain

## **REST WITH SPRING MVC**

- An introduction to the REST architectural style
- Controlling HTTP response codes with @ResponseStatus
- Implementing REST with Spring MVC,
- @RequestBody, @ResponseBody
- Spring MVC's HttpMessageConverters and automatic content negotiation

## **MICROSERVICES WITH SPRING CLOUD**

- Microservice Architectures
- Challenges with cloud-native applications
- Using Spring Cloud

- Developing a simple microservice system

## **REACTIVE APPLICATIONS WITH SPRING**

- Overview of Reactive Programming concepts
- Reactive Programming support in Spring
- Using Spring's reactive WebClient

### **Duration and pricing**

- Full-time over 3 months (you must be in the classroom at least one week per month – [email us](#) for the weeks if not on the calendar yet)
- *Part-time* over 12 weeks (1, 3 hour session)
- Please note : For *part-time* courses we do not always have a fixed schedule – then you will be placed on a waiting list until we get a group of 4+ together. Please book with no dates on the bookings form. This will automatically put you on the waiting list. We will confirm with you as soon as we have a part-time group together.
- International exams are not included in the course price.
- Prices exclude Vat for Vat-registered companies

### **Certificate**

1. Upon completion of this course we will issue you with attendance certificate to certify your attendance and / or completion of the prescribed minimum examples.
2. You may sit for our mock-exam to obtain our competency certificate before you write the international exam.

### **Bookings**

You can download the course registration form on our home page or by clicking [here](#)

### **Brochure**

You may download a pdf copy of this page by clicking on the

pdf icon at the bottom of the page.

## **Questions**

Please [email us](#)

## Schedule

On the calendar below. If your browser doesn't display the calendar below, please click on [this link](#) or try using [Google Chrome](#), alternatively please enquire via our [Contact Us](#) page.