

Code College has MICT SETA Accreditation in NQF Level 5

Code College was awarded the MICT SETA Accreditation in NQF level 5 (provider number ACC/2018/07/0052) .

After clients started asking us for MICT SETA accreditation for their bookings, we enrolled with the MICT SETA in order to align some of our courses with the NQF Framework level 5. If you do want to book a course that is specifically accredited in the NQF framework, please check on the alignment section of the course page. Please note that the courses that do not specifically indicate alignment, is not aligned yet – we will be adding more courses as we go along and indicate each as such. On some courses there will be an alignment workshop added which will be offered at a discounted rate to students that already passed our own competency program – keep an eye on the course page or just [keep in touch](#) if you are interested to align previously done courses with us.

48872	National Certificate: Information Technology: Systems Development
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The purpose of the NQF level 5 qualification is to enhance readiness and provide entry into the areas of Systems Development at NQF level 5. It prepares learners for entry into the workplace or as undergraduate study in the Systems Development areas covered, providing them with the necessary knowledge needed for further study in the fields of Information Technology and Computer Sciences at Higher Education level.

The qualification is addressing the need in the workplace for nationally recognised qualifications, based on unit standards, that will allow people with workplace experience in the Systems Development areas covered, to request assessments and get recognition for prior learning.

A qualifying learner will be able to communicate effectively with fellow IT staff & users of information technology, understanding the role of technology in a business context and to be able to address business problems with appropriate information technology solutions. Learners will be able to apply the principles of creating computer software by carrying out, under limited supervision, a task of reasonable size to demonstrate an understanding of the knowledge, techniques & skills needed in one or more area of majoring / specialization that the qualification offers.

Another Batch of Java Developers Were Born!

The January [Java Bootcamp](#) has concluded and produced another batch of highly skilled Junior *Java Developers*. They have done the Java Bootcamp (over a 6 month period) which is a [full stack web coding bootcamp](#) focusing on Java. The [Java Bootcamp](#) is comparable to an internship as we focus on competencies needed by employers.

Java Standard Edition knowledge and competence for Oracle Certification

In the first 3 months of the bootcamp we cover Java Standard edition aligned with the Oracle Java Certification syllabus (OCA and OCP).

Full Stack Java Spring Framework Web Application Development

In the last 3 months of the bootcamp we cover practical web development with the Spring Framework.

Date	Course	
Jan 2018	<p><u>Intro To Programming (HTML/CSS/JavaScript)</u></p> <p>JavaScript was used as the basic coding language with support of HTML and CSS. The fundamentals of coding were taught: Syntax, Variables, Types, Data Structures, Control Flow VS Code</p>	<p>Passing the international JavaScript exam on ww3schools. Building various apps like a shopping cart program.</p>
Jan 2018	<p><u>Java Beginner (OCA Aligned)</u></p> <p>The course focussed on Object-Oriented and the Java Language Fundamentals. We also covered to Oracle Certified Associate Java Programmer Syllabus. Netbeans</p>	<p>Passing a Test in the Java concepts and fundamentals of Object-orientation</p>
Feb 2018	<p><u>SQL (aligned with MTA)</u></p> <p>Querying in SQL, Database Design, Entity Modelling Using MySQL Workbench MySQL Workbench</p>	<p>Passing the international SQL exam on w3schools Building a normalised multi table database design using a UML Modelling tool on MySQL Workbench</p>
Mar 2018	<p><u>Java Advanced (OCP aligned)</u></p> <p>Practical skills in Java like Networking, Database interfacing, Writing Swing GUI apps performing CRUD operations. Netbeans</p>	<p>Building a CRUD JDBC application, using Java and Swing GUI</p>

Apr 2018	<p style="text-align: center;"><u>Spring MVC / Hibernate</u></p> <p>The fundamentals of Spring MVC with Hibernate used in Web Applications.</p> <p>Spring AOP, Spring Security, Spring REST, Spring Configurations with XML / Annotations, Maven Eclipse / STS</p>	Building a CRUD Web Application
May 2018	<p style="text-align: center;"><u>Spring MVC (Online Store)</u></p> <p>Building a complete online shopping cart with user login using Spring Security, Apache Tiles, Spring Web Flow, Testing, REST / Ajax, Spring Tag Libraries..</p> <p>Github Integration with Eclipse</p>	Building a complete shopping web app with a shopping cart using the technologies mentioned on the left.
June 2018	<p style="text-align: center;"><u>Spring Boot</u></p> <p>Autoconfiguration, Logging, JDBC Template, MyBatis, JPA, MongoDB, Tomcat, Jetty, REST API, Spring Reactor / WebFlux, Spring Security, Actuator, Testing, JHipster, Heroku IntelliJ</p>	Build a Spring Boot App with Jhipster and an Angular front-end using the technologies mentioned on the left. Deploying it to Heroku.

Employers, if you are not talking to us yet about these graduates, please [contact us now!](#)

Prospective Students, if you want to find out more, please [contact us now!](#)

Getting School Leavers in Eldorado Park Ready for Coding

Code College is Training 40 final year school kids the basics of coding (Introduction To Programming) . This will enable them to enroll in further advanced practical training like [Full Stack Web Coding](#) which cover International Certification like the [Java Bootcamp](#) .

Our Intro To Programming Course is intended for people who know nothing about coding, and teach them all the fundamentals from a knowledge perspective as well as a competency perspective.

We also use our Intro To Programming Course Outcomes as an entry requirement for our [Full Stack Web Coding Bootcamps](#) .

[Wikipedia on Coding Bootcamps:](#)

Coding bootcamps can be part-time or online, they may be funded by employers or qualify for student loans. According to a 2017 market research report, tuition ranges from free to \$21,000 for a course, with an average tuition of \$11,874.

In Europe, coding bootcamps can be free or a couple thousand euros per program. In contrast to formal university education, private offerings for training appear expensive.

On August 16, 2016, the US Department of Education announced up to \$17 million in loans or grants for students to study with nontraditional training providers, including coding bootcamps. These grants or loans will be administered through the pilot program, EQUIP which stands for Educational Quality through Innovation Partnerships.

Intro To Programming Team Test Winners : DEF Learners

Congratulations to the winning team of the week ending on 4 May 2018! The winners team test average were the highest for that week.

At our DEF Learners Bootcamp, we teach coding skills to unemployed Deaf students in partnership with the DEF ([Deaf empowerment firm](#)) and [Ericsson](#) . They are currently finishing off the [Intro To Programming Course](#) in JavaScript. After this course they will continue into professional [Web Development](#), [WordPress](#) and [SQL training](#) .



Coding Winners

From Administrator to Java Developer – A Dream Come True!

How I became a Java Developer through Code College:

I worked for 9 years as an Administrator and always knew I wanted to do more, so I decided to follow my high school dream of becoming a Computer Programmer, I then started looking around for programming schools where I came across Code College. I then decided to do the Java Bootcamp at Code College because the price was fair and offered me exactly what I was looking for. I negotiated with my employer to take my accumulated leave on a one-week-per-month basis, matching the Java Bootcamp training schedule.

How did you manage to do the Bootcamp – did you have to resign your job at that time?

No, I had enough leave to take one week per month as the bootcamp is delivered on a “one week per month in the classroom”. The other 2/3 weeks are for assignments and you do not have to be at the campus physically then. This is the quickest way of doing it and not having to resign from your job.

Learning experience

My learning experience at Code College was very practical – almost like being on the job, which is a great way to learn programming and understanding all the technologies you will need. I was surrounded by positive like-minded people at Code College, all trying to head in the same direction. I had to make time on Sundays and weekday evenings for the assignments. I have really learned a lot in the 6 months now that I look back. Our facilitator, Arnold, guided us every step of the way

– even after the Java Bootcamp.

Immediately after the Bootcamp in December 2017, I updated my CV and started applying for jobs online. The recruiters were impressed with my knowledge and understanding of the industry and in January 2018 I was made an offer by a company in the financial service industry as a Junior Java developer.

What kind of salary did you expect to get and did you get in the end?

To my surprise, my salary was matched – I was actually offered R500 p.m more ☐

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Thank you to Arnold and Code College, this really was a life changing course!

Kind Regards,

Edwin

Equipping School Kids with Coding Skills in Eastern Cape

Code College is training a group of 60 learners (some have finished school and some are in grade 11 / 12), in [Intro To Programming](#) over a period of 3 months.

This course is an icebreaker that opens up opportunities for them to continue into front-end coding ([HTML / CSS / JavaScript Website Development](#)) or back-end coding with [Java Beginner \(Oracle Certified Associate\)](#) .

(Khanyisa Secondary School, Mthatha, Eastern Cape)



Coding Bootcamp for Deaf

Learners

Code College is delivering a Coding Bootcamp for 24 Deaf learners via the Deaf Empowerment Firm and the National Council for Persons with Disabilities.



The Bootcamp runs over 12 months and the students started off with the icebreaker of [Introduction To Programming](#) with JavaScript. After completion of this and all the extra assignments, the students will do a professional [HTML/CSS Website Development Course](#) covering latest technologies like HTML5, CSS3, Bootstrap and Responsive Website Development. After this the students will do an [SQL Querying Course](#) to teach them the basics of SQL and database design.

Code College now an Oracle Workforce Development Partner

Code College has joined the Oracle Workforce Development Program. This will give us access to the latest learning products and support in our [Java Bootcamp](#). It also adds

exposure to our students who pass the Oracle Certification Exams.

2 -6 Oct Java Beginner

Prerequisites / Further Training

You should not be a complete beginner for this course. If you cannot [pass this test](#), you must do [Intro To Programming](#) first.

Recommended sequence	Summary
<i>Beginner Java</i>	<i>Java Language and OO Fundamentals</i>
Advanced Java (Full-Stack)	Building Apps with Java
Java Servlets Beginner	Java Web development

Also have a look at our [Java Bootcamp](#)

Alignment

OCA: Oracle Certified Associate Java SE 8 Programmer Exam 1Z0-808

Intended Audience

- Intended for people who has some knowledge of programming and wanting to learn Java and OO
- NB: This is NOT an [Introduction to Programming](#) course.

After this course you should be able to

- Have a good understanding of programming and the building blocks of an OO programming language, with an emphasis on JAVA.

- Prepare for Oracle OCA Exam 1Z0-803
- Proceed to the [Advanced Java](#) Training Course

Course Material

Course Material Provided

Course Contents

Day 1

Introducing Java Technology

- Breaking the Surface
- The way Java works
- Code Structure in Java
- Anatomy of a class
- The main() method
- Netbeans IDE and Debugging

Loop and decision constructs

- Looping
- Conditional branching
- A trip to Objectville
- Inheritance,Overriding
- Class variables and methods
- Making your first object,Using main

Day 2

Primitives

- Know your Variables
- Declaring a variable
- Primitive types
- Java keywords

Objects

- Reference variables
- Object declaration and assignment
- Objects on the garbage collectible heap

- Arrays
- How Objects Behave
- Methods use object state
- Method arguments and return types
- Pass-by-value

Encapsulation

- Getters and Setters
- Encapsulation
- Using references in an array

Day 3

Arrays and ArrayLists

- Extra Strength Methods
- Building a one-dim ArrayList game
- Preparing to code
- Coding
- Random numbers<
- Using user-input
- For loops
- Casting primitives
- String conversion
- Using the Java Library
- Two Dimensional ArrayList Structures
- Enhancing the game
- Coding the game
- Boolean expressions
- Using the Java library (API)
- Using packages
- Using the HTML API docs and

Day 4

Polymorphism. Method Overloading

- Better Living in Objectville
- Understanding inheritance

- Designing an inheritance tree
- Avoiding duplicate code
- Overriding methods
- IS-A and HAS-A · What do you inherit from your superclass?
- What does inheritance really buy you?
- Polymorphism
- Rules for overriding
- Method overloading

Advanced OO Concepts

- Serious Polymorphism
- Some classes should not be instantiated
- Abstract classes
- Abstract methods
- Polymorphism in action
- Class Object
- Taking objects out of an arraylist
- Compiler checks the reference type
- Get in touch with your inner object
- Polymorphic references
- Casting an object reference (moving lower in the inheritance tree)
- Deadly Diamond of Death
- Using interfaces (the best solution)

Day 5

Garbage Collection

- Life and Death of an Object
- The stack and the heap
- Methods on the stack
- Where local variables live
- Where instance variables live
- The miracle of object creation

Constructors

- Constructors, Initializing state of a new Object
- Overloaded constructors
- Superclass constructors
- Invoking overloaded constructors using this()
- Life of an object, Garbage collection

Handling Errors

- Handling Errors
- Handling Exceptions

Duration and pricing

In [Price Group B](#)

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 competency assessment test and on passing you will obtain our competency certificate.
3. Our competency assessment can be booked and taken by someone who has not attended the course at a cost of R950.

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 top 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.

18 – 22 Sept : MEAN Stack (Mongo, Express, Angular, Node.JS)

Our MEAN Stack (Mongo, Express, Angular, Node) training course teaches you how to develop web applications using the MEAN stack. A powerful platform that uses only one language, top to bottom: JavaScript.

Prerequisite

- [Angular](#)
- [Node.js](#)

DAY 1 – INTRODUCTION

- Introducing full-stack development
- Designing a MEAN stack architecture

DAY 2 – BUILDING A NODE WEB APPLICATION

- Creating and setting up a MEAN project
- Building a static site with Node and Express
- Building a data model with MongoDB and Mongoose
- Writing a REST API: Exposing the MongoDB database to the application
- Consuming a REST API: Using an API from inside Express

DAY 3 – ADDING A DYNAMIC FRONT END WITH ANGULAR

- Adding Angular components to an Express application
- Building a single-page application with Angular:
- Foundations
- The next level

DAY 4 – MANAGING AUTHENTICATION AND USER SESSIONS

- Authenticating users
- Managing sessions
- Securing APIs

DAY 5 – YOUR OWN PROJECT

Duration and pricing

- *Full-time* over 5 days (R9995)
- *Part-time* over 4 weeks (2 nights per week, 3 hour sessions) (R11995)
- *Part-time* over 8 Saturdays, 3 hour sessions (R11995)
- Please note : For *part-time* courses we do not have a fixed schedule and 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.
- [Distance-learning](#) over up to 3 months (R9995)
- International exams are not included in the course price.
- Prices exclude Vat for Vat-registered companies

Certificate

- Upon completion of this course we will issue you with attendance certificate to certify your attendance and / or completion of the prescribed minimum examples.
- You may sit for our competency assessment test and on passing you will obtain our competency certificate.
- Our competency assessment can be booked and taken by someone who has not attended the course at a cost of

R2950.

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 top 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.