



Full Stack Web & Software Developer (National Certificate: IT Systems Developer NQF5)

Overview

A **Full Stack Developer** is a programmer that builds a variety of web-based software solutions to solve business problems. The **Full Stack Developer's scope of work** includes the developing of apps, websites, databases and desktop solutions.

AIE students following this track will learn to use a variety of tools and languages to develop both **front-end and back-end (server) software components**. These languages include **Java, HTML, CSS, Javascript, jQuery, Vue, Node, SQL, and MongoDB**. **Java** remains one of the most common, in-demand computer **programming languages** used today, used to develop cross-platform coding solutions that run on web, desktop and mobile devices. Building **interactive web applications** involves programming the browser application, the **server-side functions**, and **communicating online with a database to store and retrieve data**.

Step 1

Earn Your Full Stack Web and Software Developer Certificate (9 months)

Included in Fees

Step 2

Earn Your NQF5 Qualification (+3 months)

Step 3

Complete Your International Diploma (+3 months)

Extra Fees Apply

1. Earn Your Full Stack Web and Software Developer Certificate (12 Months)

Part 1 is the cornerstone of the course. Here you will learn to code and become a Full Stack Web and Software Developer to prepare you for a career in web, app, desktop and database development.

- **Modules Covered:** Web and Software Programming Fundamentals, Website Design and Development, Web and Software Programming, Database Development
- **Technology Covered:** Java, HTML, CSS, JavaScript, ReactJS, NodeJS, Bootstrap, AngularJS, jQuery, VueJS, SQL, MongoDB, Express, Photoshop

2. Earn Your IT Systems Developer NQF5 Qualification (+3 Months, Fees Included)

Complete the additional required credits to earn your NQF5 Qualification. This can be done on campus or online, at no extra cost to you.

- **Modules Covered:** Personal Development, Portfolio of Evidence Compilation

3. Earn Your NCC Education Validated Certificate to get International Recognition for your National Certificate (+3 Months, Extra Fees Apply)

Q: Want to work abroad? AIE, in partnership with UK based, **NCC Education**, mapped this qualification content to the UK based **Level 4 Diploma in Computing (L4DC)** for full program validation. The Level 4 Diploma makes up the first year of the **NCC Education** degree journey and is equivalent to the first year of an **IT degree** in the **UK university system** and will allow you to articulate into further studies abroad. **Download the NCC International University Progression document** or visit the International University Progression page.

Extra Modules: you will need to complete 2 additional modules to achieve full program validation for your International Diploma.

International Progression: **Download the NCC** Booklet or visit the **NCC University Progression** page.



Duration

Full-Time, Hybrid Learning

- **12 Months, 163 credits**
- Full-time students are engaged throughout the week in a variety of mentored activities presented in hybrid format to allow students the flexibility to attend on campus or from home.
- Credits are completed via on-campus studies or at-home learning.
- This blended learning approach combines online Virtual Classrooms, at home exercises, project-based assignments, and fully developed video lectures.

Part Time, Hybrid Learning

- **12 Months, 147 credits**
- 2 Hours per week - live online class on selected weekday evenings from 18:00 to 20:00. Additional sessions via Hybrid learning on selected Saturdays providing students with the flexibility to attend on campus or study at-home.
- Credits are completed via on-campus studies or at-home learning.
- This blended learning approach combines online Virtual Classrooms, at home exercises, project-based assignments, and fully developed video lectures.

Online, Virtual Classes

- **12 Months, 147 credits**
- 2 Hours per week - live online class on selected weekday evenings from 18:00 to 20:00.
- Credits are completed via on-campus studies or at-home learning.
- This blended learning approach combines online Virtual Classrooms, at home exercises, project-based assignments, and fully developed video lectures.

*Sessions are grouped together to decrease travel costs where possible. Please note that schedules are subject to change.

Mode of Delivery

- Full Time
- Part Time
- Online

Admission Requirements

- National Senior Certificate (Grade 12) with Foundational Mathematics and English as your home/first language. OR
- FET Certificate: IT Systems Developer NQF4 (Junior Programmer)
- No coding background is required but would be beneficial.

Features & Benefits

- All learning is delivered via our **myWay Hybrid Learning** methodology. This technology-driven learning method allows for a flexible class schedule with access to classes anywhere, anytime.



- Get a free **Office 365 Education A1 license**, valid for the duration of your studies.



- Job placement assistance through our industry network and online recruitment portal, exclusively available to **AIE graduates**. Visit www.recruitgraduates.co.za for more.



- Get a free **Adobe Photoshop license** to use while completing the relevant subjects

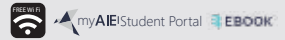


Career Options

- Full- Stack Web Developer
- Java Developer
- App developer
- Junior programmer
- Code testing and maintenance
- Coding analyst
- Database developer

Study Kit

Your study kit is included in your fees and will contain:



- Free WIFI** (Unlimited, On Campus only).
- Electronic study guides.
- Stationery kit that includes:**
 - AIE Notepad
 - Textbook
 - AIE Pen, Ruler & Pencil Case
- Orientation kit including: Student Card, Welcome Letter and Getting Started Guide.
- Access to our **myAIE** student portal and student support team via phone, email and tickets.

What you get

This qualification has been designed to provide the student with a national certificate built on a solid foundation consisting of industry-relevant programmer skills, together with the option to obtain an international validation certificate for maximum employability. On completion the student will earn the following:

National Qualification

- AIE Certificate: Full Stack Software Developer.
- IT Systems Development, SAQA ID 48872, NQF Level 5

International Qualification

- A Validation Certificate for the International Level4 Diploma in Information Technology Systems Support and Development

Hardware requirements

You are required to have your own computer for this qualification. Available exclusively to AIE students, devices can now be financed with your tuition fees. For this qualification, the following models meet minimum requirements.



MEDIUM

Medium Spec,
Dell Latitude 3510, i7, 8GB

HIGH

High Spec,
Dell Latitude 3510, i7, 16GB

R18 000.00

Learn More

The foundation for intense graphic and processor heavy tasks.

10th Generation Intel Core (7-10510U (4 Core, 8M cache, base 1.80GHz, to 4.90GHz), 15.6-inch FHD (1920 x 1080) Anti-Glare LED-Backlit Non-Touch), **Camera & Microphone**, Power Button with Touch Fingerprint Reader, 8GB, 1x8GB, DDR4 Non-ECC, DDR4, M.2 256GB PCIe NVMe Class 35 Solid State Drive, NVIDIA GeForce MX230 w/2GB GDDR5 Graphics Memory, 4 Cell 51Whr Express Charge Capable Battery, Windows 10 Pro (64 Bit), 1Y Collect and Return Service

Salaries & Skills

SALARIES (ANNUAL)



* All statistics are derived from www.payscale.com