



# Fact Sheet

Artificial Intelligence  
Software Developer



Creative &  
Technology  
Universitas

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# Artificial Intelligence Software Developer

## FACULTY OF INFORMATION TECHNOLOGY

### Occupational Studies: 2024 Fact Sheet

Programme Title	SAQA ID	Credits	NQF
Occupational Certificate: AI Software Developer	118792	209	5

## Programme description

Artificial Intelligence Software Developer is to prepare a learner to operate as an Artificial Intelligence Software Developer. AI Software Developers build Artificial Intelligence (AI) functionality into software applications through integrating and implementing AI algorithms and logic into the deliverables of an Information Technology (IT) project. Developers teach the machine to solve problems the way a human would through the use of programming. They create, test and deploy code. These developers also assist in converting machine learning Application Programming Interface (APIs) so that other applications can use them.

## Admission requirements

The minimum entry requirement for this qualification is:

- ▶ NQF level 4 qualification (Grade 12/NSC) and CAT/Computer Science highly recommended.

## Mode of study | Duration

**Day Classes** (full time): 24 Months (5 days/week)

**Evening Classes** (part time): 24 Months, (2 x evening classes per week, 18:00 - 21:00, Mon & Wed or Tues & Thurs as well as 2 x Saturday classes per month)

**Distance Learning** (self study): 24 Months

This is a self-study programme. However, students will be privileged to attend tutorial classes twice a month from 9 am – 4 pm (Optional).

## Programme outline

### Modules

- AF511:** Artificial Intelligence Fundamentals
- AM511:** Applied Mathematics
- ADT511:** Analytical and Design Thinking Techniques
- DEN511:** Data Engineering
- CF512:** Computing Fundamentals
- ML512:** Machine Learning
- DL512:** Deep Learning

## Teaching and Learning Methodology

A blended teaching and Learning methodology is followed. All theory classes will be conducted Virtually through Lecturer-led interactive teaching on a national basis. A flipped classroom approach will be followed in some sessions. This means that students are introduced to content at home and practice working through it during the applicable session, either the virtual theory sessions or the practical sessions. All students will be allocated to lecturers

that are not necessarily based at the campus of enrollment but who will always be subject matter experts. CTU implements a national academic standard and all lecturers have been appointed on the same criteria and use the same academic content in the teaching and learning process. The adherence to a national academic standard is monitored by the Academic Management team at the Head office. Therefore, all students will continue to receive the same quality of education. Students will attend some practical, group, and research sessions on campus or virtually. The same work and time will be spent on both methods, face to face and VLIT, with students. Extra practical sessions can be booked with the Campus Operational Manager. Students will be expected to attend the practical, group, and research classes on campus a minimum of two days a week, as per the campus schedule.

## Textbooks and e-guides

A list of prescribed textbooks will be provided in your e-guides. Students will receive an electronic version of the academic guides (e-guides) for this programme on the Teaching and Learning platform. Access is available to an electronic library of textbooks on O'Reilly, and it is included in the fees. Refer to the [Device Specifications and Stationery List](#) document for more information.

## Technology hardware, software and data requirements

Because CTU is embracing the future of education - education beyond the classroom - it is compulsory for students to have their own laptop with the necessary specifications to speed up their journey to success.

## Student Support

Student support sessions with the facilitator will also take place on a one-on-one basis either virtually or physically at the campus per appointment or per the academic schedule.

## External Summative Assessment and Certification

In order to qualify for the external summative assessment, learners must have a copy of a completed and signed Statement of Work Experience as well as proof of successful completion of the Knowledge Modules and Practical Skills Modules.

Upon completion of this course, students will be awarded an **Occupational Certificate: Artificial Intelligence Software Developer from the QCTO**.

## International Certifications

### Included in price

- ▶ AI102 (Designing and Implementing a Microsoft Azure AI Solution)
- ▶ AI900 (Azure AI Fundamentals)

### Students own account

- ▶ DP-300 (Administering Relational Databases on Microsoft Azure)
- ▶ PL-300 (Microsoft Power BI Data Analyst )

## Career fields

### Students can be employed in the following career fields:

- ▶ AI Software Engineer
- ▶ Deep Learning Engineer
- ▶ Natural Language Processing (NLP) Engineer
- ▶ Computer Vision Engineer
- ▶ AI Application Developer

## Pricing\*

### AI Software Developer

Programme	Registration fees	Tuition fee
Year 1	R9 000	R65 000
Year 2	R9 000	R68 200

\* Excludes external fees and identified textbooks if applicable. \* Prices are subject to annual adjustments.

## Payment

Visit our website to view the payment method.

[Payment Methods.](#)

**APPLY for Student Loan [HERE!](#)**

## Additional costs

Students must make provision for additional items such as textbooks, stationery, supplementary examinations, research costs and printing, field trips etc.

## Disclaimer

The information contained in this fact sheet is accurate at the time of printing. However, factors beyond the control of CTU Training Solutions (such as environmental, regulatory or technical changes) may cause the contents of this fact sheet or of the programme to change. In the event of any such change, CTU will notify current students. All possible measures will be taken to minimise inconvenience to students.

I (Name of student):.....hereby acknowledge that I understand the information stated in this document and fully comprehend the specifics explained above pertaining to this qualification.

Student signature:.....

Signature of legal guardian:.....

Name of legal guardian:.....

Consultant signature:.....

Name of sales consultant:.....

Date:.....

\* Please note the original signed copy should be kept on the student record file.