



FACT SHEET

Artificial Intelligence
Software Developer



Private
Tertiary
Education

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Artificial Intelligence Software Developer

FACULTY OF INFORMATION TECHNOLOGY

Occupational Studies: 2027 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:

- ▶ Gr 12 NQF level 4 qualification
- ▶ Gr 11 NQF level 3 qualification (**Subjected to a Bridging Course on NQF 4**)

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)

Programme outline - Modules

Bridging Course: Year 1 (Grade 11 entry)

ICC411: Introduction to Cloud Computing

FIR411: Industry 4.0

CSG412: Cloud Security & Governance

WM01: On-Demand Availability of Server Resources and Services over the Internet

WM02: Ensure Availability and Reliability of Network Connection According to Workflow and Security Protocols

Year 1

BSP511: Building AI Solutions with Python

AF511: Artificial Intelligence Fundamentals

AM512: Applied Mathematics

ADT512: Analytical and Design Thinking Techniques

DEN512: Data Engineering

Year 2

CT521: Computing Theory

ML521: Machine Learning

DL522: Deep Learning

CF522: Introduction to Governance, Legislation and Ethics

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.

Artificial Intelligence Software Developer

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.

Grade 11 Entry:

You will write two External Integrated Summative Assessment (EISA) exams during your studies: the Bridging Course EISA (Cloud Administrator, SAQA 118699, 149 Credits) in Year 1, followed by the AI Software Developer (SAQA 118792, 209 Credits) EISA exam upon successful completion of Year 2.

Grade 12 Entry:

You will be writing an EISA exam for AI Software Developer (SAQA 118792, 209 Credits) after completion.

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

What is EISA?

The External Integrated Summative Assessment (EISA) is an integral and critical component of the QCTO's quality assurance system. It is a single national assessment leading to the awarding of an Occupational Certificate. EISA ensures that the assessment of occupational qualifications, part qualifications and trades is standardised, consistent and credible.

For learners to qualify for entry to EISA, they must provide proof of completion of all required knowledge, practical and work experience modules as stipulated in the qualification. The statement of results obtained from the Skills Development Provider serves as proof that the candidate has satisfied all the requirements to be admitted to sit for EISA.

International Certifications

Included in price

Year 1

- ▶ CompTIA Tech+
- ▶ AI-901: Microsoft Azure AI Fundamentals

Year 2

- ▶ ITSPC-Python
- ▶ AI-103: Developing AI Apps and Agents on Azure

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
Grade 11 Entry: Bridging Course + AI Software Dev - Year 1	R9 000	Contact a CTU campus/ consultant for the latest fee information and payment options.
Grade 12 Entry: Year 1	R9 000	
Year 2	R9 000	

*** Excludes external fees and identified textbooks if applicable.**

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 content of this fact sheet is subject to change without notification due to market trends in the industry, legislation and/or programme version updates. Refer to website for the latest version of the prospectus. CTU Training Solutions (PTY) Ltd, reserves the right to change the programme content without prior notice. Additional international exams may be written but are not included in the programme fee. Minimum student (capacity) group sizes will fall into the Virtual Instructor-Led programme commencing in the months of February & July of each year.

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.**

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