



FACT SHEET

Data Science
Practitioner

Data Science Practitioner

FACULTY OF INFORMATION TECHNOLOGY

Occupational Studies: 2027 Fact Sheet

Programme Title	SAQA ID	Credits	NQF
Occupational Certificate: Data Science Practitioner	118708	185	5

Programme description

This course is designed for individuals eager to delve into the world of data analysis and leverage the power of data in making informed decisions. Data Science Practitioners take custody of data and make the data available in a structured form for the Data Scientist to use. They support the data life cycle by collecting, transforming, and analysing data and communicating results to solve elementary business problems. They transform data into robust, comprehensive data sets, aligned with the problem identified in the statement of work and ready for storage.

Admission requirements

The minimum entry requirement for this qualification is:

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

Mode of study | Duration

Day Classes (full time): 12 Months (5 days/week)

Evening Classes (part time): 12 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

DAF511: Introduction to Data Fundamentals

LOT511: Logical Thinking and Basic Calculations

DET511: Design Thinking Techniques

CAF511: Computer Architecture Fundamentals

STA511: Statistics

COP512: Computer Programming

DAN512: Data Analytics

DAV512: Data Visualisation

WRN512: Work Readiness

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: Data Science Practitioner from the QCTO**.

Data Science Practitioner

International Certifications

Included in price

Semester 1

- ▶ DP900 : Microsoft Certified: Azure Data Fundamentals

Semester 2

- ▶ PL-300 : Microsoft Certified: Power BI Data Analyst Associate

Students own account

- ▶ ITSPC-Python
- ▶ MO-201

Career fields

Students can be employed in the following career fields:

- ▶ Data Scientist
- ▶ Statistics Analyst
- ▶ Business Intelligence Analyst
- ▶ Machine Learning Engineer
- ▶ Data Analyst

Pricing*

Programme	Registration fees	Tuition fee
Data Science Practitioner	R9 000	Contact a CTU campus/consultant for the latest fee information and payment options.

* **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.**