

FACT SHEET

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Environmental  
Science Technician

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# Environmental Science Technician

## FACULTY OF ENGINEERING & SUSTAINABILITY

### Occupational Studies: 2026 Fact Sheet

Programme Title	SAQA ID	Credits	NQF
Occupational Certificate: Environmental Science Technician	99508	467	6

## Programme description

The Environmental Science Technician programme is designed to prepare students with the practical skills and scientific knowledge needed to support environmental protection, conservation, and sustainable resource management efforts. This hands-on programme trains students to collect, analyze, and interpret environmental data essential for monitoring air, water, and soil quality. Throughout the programme, students learn to apply environmental regulations, conduct laboratory and fieldwork, use environmental sampling equipment, and operate Geographic Information Systems (GIS). They also gain a solid understanding of environmental policies, pollution control, waste management, and natural resource conservation.

Graduates of the programme are equipped to work in environmental monitoring, consulting, research, and regulatory compliance roles within government agencies, environmental firms, laboratories, and industries focused on sustainability.

An Environmental Science Technician qualification will prepare learners to assess and control operational aspects in compliance with the applicable Environmental Regulatory Framework.

### A qualified learner will be able to:

- ▶ Conduct tests to assess environmental impact.
- ▶ Monitor anthropogenic activities (anthropogenic refers to industrial, agricultural, construction, etc.) to determine compliance.
- ▶ Conduct an environmental risk assessment to minimize/control risks within a specific occupational setting.
- ▶ Coordinate the maintenance of monitoring and assessment equipment.

## Admission requirements

The minimum entry requirement for this qualification is:

- ▶ NQF Level 4 with science-related subjects Or
- ▶ Environmental Practice with 2 years of working experience
- ▶ Recognition of Prior Learning (RPL).

## Mode of study | Duration

**Day Classes** (full time): 3 Years (5 days/week)

**Evening Classes** (part time): 3 years, (3 x evening classes per week, 18:00-21:00 as well as 2 x Saturday classes per month)

## Programme outline

### Year 1

**ERF511:** Environmental Regulatory Framework

**ENP511:** Environmental Pollution

**ENE511:** Environmental Ethics

**ECR511:** Environmental Communication and Reporting

### Year 2

**EMA611:** Environmental monitoring and assessment

**SIWM611:** Sustainable Integrated Waste Management

### Year 3

**AQMC611:** Air Quality Monitoring and Control

**NRC611:** Natural Resource Conservation

## 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

- ▶ An external integrated summative assessment, conducted through the relevant QCTO Assessment Quality Partner, is required for the issuing of this qualification.
- ▶ 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 successful completion of this programme, learners will receive:

**An Occupational Certificate: Environmental Science Technician from QCTO.**

## International Certifications

- ▶ MS Word
- ▶ MS Excel
- ▶ MS PowerPoint

## Career fields

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

- ▶ Environmental Compliance Technician
- ▶ Air Quality Technician
- ▶ Field Research Assistant
- ▶ Laboratory Analyst

- ▶ Nature Wildlife Technician
- ▶ Hazardous Materials Technician
- ▶ Water / Wastewater Technician
- ▶ Environmental Protection & Monitoring Technician
- ▶ Sustainability Technician

## Articulation

A candidate who has successfully completed An Occupational Certificate: Environmental Science Technician Qualification, may pursue to:

- ▶ Bachelor of Technology in Environmental Management, Level 7 (ID 72399).
- ▶ Bachelor of Science in Environmental Sciences, Level 7 (ID 87270).
- ▶ Advanced Diploma in Nature Conservation, Level 7 (ID 93617).
- ▶ Bachelor of Technology in Nature Conservation, Level 7 (ID 62337).

## Pricing\*

Environmental Science Technician

Programme	Registration Fees	Tuition fee
Year 1	R9 000	R 65 000
Year 2	R9 000	R 68 200
Year 3	R9 000	R 71 500

**\* 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 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.**