FACT SHEET

Occupational Certificate:

Environmental Science Technician

(Distance Learning)

CTU training solutions | Private Tertiary Education

www.ctutraining.ac.za

Environmental Science Technician

FACULTY OF SUSTAINABILITY			
Occupational Studies: 2027 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, analyse, 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 work experience
- Recognition of Prior Learning (RPL).

Articulation

A candidate who has successfully completed an Occupational Certificate: Environmental Science Technician Qualification may pursue:

- 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).

Mode of study | Duration

Distance Learning | 3 Years

Distance learning is a mode of education that allows students to study remotely without needing to attend physical classes on a daily basis. It provides flexibility and accessibility, enabling learners to access course materials, complete assignments, and engage with instructors online or through blended methods. Distance learning is ideal for individuals who may be working, have personal commitments, or live far from an educational institution. With the support of digital tools, academic resources and periodic tutorials or consultations, students can progress through their studies at their own pace while still receiving structured guidance and support from qualified facilitators *(while adhering to assessment submission deadlines)*.

Distance Learning involves independent self-paced learning with access to digital resources, study guides, recordings, and a monthly scheduled virtual session with a facilitator.

This is a Distance Learning (self-study) programme offered over **36 Months, (1 Online Saturday session per month)**

2 intakes per year

Programme outline

Year 1 Subjects:

- ERF511: Environmental Regulatory Frameworks
- ERF511: Environmental Regulatory Framework
- ENP511: Environmental Pollution
- ENE511: Environmental Ethics
- ECR511: Environmental Communication and Reporting

Year 2 Subjects:

- EMA611: Environmental monitoring and assessment
- SIWM611: Sustainable Integrated Waste Management

Year 3 Subjects:

- AQMC611: Air Quality Monitoring and Control
- NRC611: Natural Resource Conservation

Teaching and Learning Methodology

Our teaching and learning methodology are designed to ensure that students receive quality education, engage in active learning, and achieve their academic and career goals while studying remotely.

Teaching & Learning Approach:

Self-Paced Learning:

Students are provided with structured course materials that allow them to study at their own pace. These materials include:

- Comprehensive study guides
- Prescribed textbooks and reference materials
- Class recordings for all modules

Interactive Learning:

To enhance understanding and engagement, students have access to:

- Online discussion forums to interact with peers and lecturers
- Case studies, practical activities, and self-assessment.

Tutor Support:

Distance learners are not alone in their journey. Academic support is available through:

- Specialized tutorial sessions twice a month.
- Email and online chat with subject tutors
- Feedback on assignments and progress tracking.

Assessment and Evaluation:

To ensure mastery of the subject content, assessments include:

- Formative Assessments (Assignments,)
- Summative Assessments (AISA Final examination)

Practical Training (For Applicable Courses)

For programs that require practical experience, students must:

- Complete work-integrated learning (WIL) or internships
- Submit workplace logbooks and reports for assessment
- Participate in practical simulations (if available online)

Our distance learning methodology is structured to provide flexibility while maintaining academic rigour.

With the right discipline, resources, and support, students can successfully complete their studies and achieve their qualifications.

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.

Technology hardware, software and data requirements

A laptop is required to access the VLIT sessions, all study material, and complete assessments etc.

Technology Requirements

- Laptop (Intel i5 or higher, 8GB RAM, 64-bit OS)
- 20GB minimum data per month (Uncapped recommended)
- A webcam, microphone or headset, and an up-to-date web browser are required for virtual sessions and online activities.

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. One of them will be:

For additional information please consult the CTU Bring your own device guide. **Device Specifications and Stationery List.**

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.

Career fields

Students can be employed in the following career fields.

- Environmental Compliance Technician
- Air Quality Technician
- Field Research Assistant
- Laboratory Analyst
- Sustainability Technician
- Nature Wildlife Technician
- Hazardous Materials Technician
- Water / Wastewater Technician
- Environmental Protection & Monitoring Technician

Internal Assessments

Students will be required to use The Invigilator app when completing online assessments. The app supports the integrity and secure administration of online assessments and is used alongside the institution's online assessment platform. Students will receive guidance and training on the installation and use of the app before it is required for an assessment.

External Assessments: 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.

Upon completion of this course, students will be awarded an **Occupational Certificate: Environmental Science Technician from QCTO.**

International Certifications

International examinations are optional and are not included in Distance Learning tuition fees. Students who wish to complete an international examination can register for the relevant Short Learning Course (SLC). The SLC fee covers exam preparation sessions and one vendor examination voucher. If a student is unsuccessful on their first attempt, they will be responsible for the cost of any subsequent examination attempts.

Student's Own Account / Additional Cost:

- Year 1: MS- PowerPoint (MO-300)

Pricing*

Programme	Registration Fees	Tuition fee
Year 1	R4 500	Contact a CTU campus/consultant for the latest fee information and payment options.
Year 2	R4 500	
Year 3	R4 500	

***Price 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.**

CONTACT US

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