

Integrated Water Resource Management & Environmental Communication

1. Overview

The purpose of this programme is to equip participants with the knowledge and practical skills required to understand the principles of Integrated Water Resource Management (IWRM), the biophysical environment, and effective business communication. Learners will develop an understanding of environmental systems, biodiversity, water resource management, and the legislative framework governing environmental management in South Africa. They will also enhance their communication skills to engage effectively with stakeholders, support environmental awareness initiatives, and contribute to sustainable environmental management practices.

2. Programme Outcome:

- Explain the principles and objectives of Integrated Water Resource Management (IWRM)
- Interpret legislation governing water resource management in South Africa
- Explain strategic approaches to managing water resources sustainably
- Describe the importance of public participation in water resource management
- Explain the development and implementation of Water Quality Management Plans
- Describe the physical components of the biophysical environment
- Explain biodiversity and ecosystem interactions
- Analyse the relationship between environmental systems and human activities
- Identify environmental challenges affecting South Africa
- Interpret environmental maps and identify key environmental features
- Apply effective verbal and written communication within a business environment
- Communicate environmental information clearly to a variety of stakeholders
- Promote environmental awareness and sustainable resource management practices

Qualification:

Certificate of Completion

Duration:

4-Months

Programme Type:

Category B – Workplace-Based Learning Programme

Programme ID:

PA0463

SAQA US:

264457, 264456, 10622

NQF Level:

5

Credits:

30

Entry Requirements:

NQF Level 4 qualification

Training Options:

Online - Each participant will receive access to an online portal, where all programme materials and resources are available. Training is delivered fully online, and participants will join scheduled Microsoft Teams sessions facilitated by a trainer. This mode provides flexibility and allows learners to participate from any location.

Blended - Blended learning combines both online and face-to-face training. Participants receive access to an online portal for online content, resources, and self-paced activities. They also attend scheduled in-person contact sessions with a facilitator, either at the client's premises or providers campus. This approach offers the

**A choice of leveraged programmes for any person,
At any level, in any department, of any company, in any industry.**

flexibility of online learning with the added support of guided, interactive sessions.

Face-to-Face - Each participant will receive training resources, which contains all programme materials and resources. Training is delivered through onsite contact sessions, either at the client's premises or providers campus, where a facilitator conducts the sessions in a classroom environment.

Minimum Participants Required: (1) Online, (1) Blended & (1) Face-to-Face

3. Programme Content

- **(264457 US):** Demonstrate an understanding of integrated water resource management (IWRM)
- **(264456 US):** Explain the biophysical environment
- **(10622 US):** Conduct communication within a business environment

4. Topics

Module 1: Introduction to Environmental Management

- Principles of environmental management
- Sustainable development
- Natural resource management
- Environmental stewardship
- Environmental challenges in South Africa

Module 2: The Biophysical Environment

- Physical components of the environment
- Ecosystems and ecological processes
- Biodiversity and conservation
- Environmental systems and interactions
- Human impact on the environment

Module 3: Environmental Mapping and Risk Identification

- Environmental features on maps
- Geographic information basics
- Environmental vulnerability
- Climate and landscape analysis
- Environmental risk identification

We trust that the above is in order and look forward to hearing from you for Implementation

Module 4: Integrated Water Resource Management (IWRM)

- Principles of IWRM
- Water resource planning
- Water governance
- Water conservation strategies
- Sustainable water use

Module 5: Water Legislation and Policy

- National Water Act
- Water Services Act
- Environmental legislation affecting water resources
- Regulatory requirements
- Compliance responsibilities

Module 6: Water Quality Management

- Water quality principles
- Water Quality Management Plans
- Water pollution prevention
- Water monitoring techniques
- Catchment management

Module 7: Public Participation and Environmental Awareness

- Community participation in environmental management
- Stakeholder engagement
- Environmental education
- Public consultation processes
- Communication strategies for sustainability

Module 8: Business Communication for Environmental Professionals

- Communication channels in organisations
- Professional verbal communication
- Business writing and reporting
- Presentation skills
- Stakeholder communication
- Environmental reporting

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5. Target Market

This programme is suitable for:

- Environmental Officers
- Environmental Practitioners
- Water Resource Officers
- Conservation Officers
- Municipal Environmental Officials
- Environmental Health Practitioners
- Sustainability Officers
- Agricultural Extension Officers
- Mining Environmental Officers
- Water Quality Officers
- Compliance Officers
- Community Environmental Facilitators

6. Assessments

This programme includes a Portfolio of Evidence (POE) that must be submitted at the end of the programme. The POE include:

- **Knowledge Assessments:** To evaluate theoretical understanding
- **Practical Assignments:** Hands-on tasks related to course topics
- **Workplace Assignments and Logbook:** Application of skills in real-world settings

Successful participants will receive a certificate of completion.

7. Workplace-Based Learning Programme

This WLP is a fusion of academic learning and practical work. The learning is directly applied to the workplace by using client-based mentors and extensive workplace-based portfolio work and assignments. Apart from the obvious benefits of a workplace directed qualification, each WLP qualifies for recognition as a Category B Skills Programme in the Learning Matrix of the Amended BEE codes, which allows for the salaries of participants to be recognized as part of the Skills Development Expenditure.

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