



DEMONSTRATE AN UNDERSTANDING OF INTEGRATED WATER RESOURCE MANAGEMENT (IWRM)

Unit Standard: 264457



Course Information



Qualification Title	National Certificate: Environmental Management
Course Title	Demonstrate an Understanding of Integrated Water Resource Management (IWRM)
Course Level	4
Course Credits	12
Course Duration	Three days
Cost of Course	R 2 800,00 per delegate (excluding 15% VAT)

Course Overview

The fundamental objective of the course is to equip delegates with the relevant skills, necessary knowledge, and related understanding of the importance of Integrated Water Resource Management (IWRM).

This highly interactive and practical course is designed to provide delegates with a sound knowledge of all elements involved to:

- Explain the importance of public participation in IWRM.
- Discuss the development of a Water Quality Management Plan (WQMP).
- Identify and explain the legislation pertaining to IWRM.

Environmental Management

Who Should Attend?	Person(s) or Manager(s) seeking to effectively manage the country's water resource, or those such as Environmental Officers who are involved in water programmes.
Course Objectives	The fundamental objective of the course is to equip delegates with the relevant skills, necessary knowledge, and related understanding of the importance of Integrated Water Resource Management (IWRM).
Benefits	Benefits of this course include: - Explaining the strategic approach to IWRM. - Discussing the Water Quality Management (WQM) approach. - Improved knowledge and understanding of the legislation. - Ability to deliver a professional approach towards water quality management. - Effective communication with the public and in public participation.

Course Content

Course Modules	Course modules consist of: - Definitions and purpose of the Acts are explained in a manner that ensures consistency in understanding the various Acts. - Sections of the relevant legislation are identified in terms of the legal framework within which the IWRM is applied. - Relevant regulations are identified and discussed in terms of how they relate to the Acts. - The importance of compliance with legislation is discussed concerning the consequences of non-compliance. - The National Water Resource Strategy (NWRS) is discussed in terms of how it relates to IWRM. - The strategic approaches to IWRM are identified and discussed in terms of their differences and the contexts in which they are used. - The primary goals of these strategic approaches are explained to ensure clarity on their focus. - The various aspects that constitute the functional strategy are identified and discussed in terms of its comprehensiveness.
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9. The definitions of IWRM are discussed to ensure consistency of understanding and provide a foundation of understanding in the field.
10. The role and importance of public participation in the mandate of the Department of Water Affairs and Forestry (DWAF) are described in terms of how the public can participate.
11. The purposes and principles of public participation are described and explained in terms of the framework established for public involvement.
12. The responsibilities of the DWAF are discussed concerning the integration of public participation within the department's work.
13. The importance of the WQMP and the involvement of role players is discussed regarding the water quality management strategy.
14. The information required to develop the WQMP for a river catchment is identified in terms of what the plan must address and what this entails.
15. The project planning approach is outlined for the WQMP.
16. The elements that constitute the characterisation of the catchment are identified and explained to elaborate on the nature of the catchment area.
17. The conceptual management plan, information systems and the management tools for a WQMP are identified and explained to serve as a procedural guide in the development of a catchment management plan.
18. The project process flow diagram is drawn and discussed in a manner that ensures that all the aspects for the development of a WQMP are covered.
19. The basic principles affecting Water Quality Management (WQM) are discussed in relation to water management strategies and policies.
20. The concept of Water Quality Management (WQM) is discussed in relation to objectives, components, activities, management philosophy and public participation.
21. The WQM objectives are outlined in terms of the components to be integrated into it.
22. Elements of a physical system are identified and discussed in terms of their characterisation.
23. Formulation of Water Quality Management (WQM) objectives are described in terms of the procedures followed.
24. The concept of assimilative capacity is explained in relation to different substances.

Certification and Assessments

All delegates who complete the summative assessment will be assessed, moderated, and receive a SOR (Statement of Results). Thereafter a Certificate of Competence from WWiSE (or SETA for qualifications) will be issued.

About WWiSE

Who are we?

World Wide Industrial & Systems Engineers (WWiSE) is an ISO consultancy, training, business solutions, and systems implementation firm based in Southern Africa that provides clients with effective business processes management solutions in preparation for ISO compliance. The solutions we provide and implement allow our clients to compete favorably in modern competitive business environments, both locally and internationally. We also strive to be the leading training providers in SHERQ, ISO, Engineering, Finance, Business, and Project Management.

What do we do?

Our services are aimed at the improvement of quality, efficiency, knowledge, and competitiveness of client companies. This service range includes:

- ISO and SHERQ Systems implementation services, whereby we assist clients in meeting the requirements of (but not limited to) ISO 9001, 14001, 22000, 31000, 27001, 20000-1, 50001, and ISO 45001 Standards.
- Integrated Management Systems development whereby we integrate several business systems and management solutions into a single management system to comply with standards.
- Training of all employees (Shop Floor to Executive Management) in the fields of SHERQ, Engineering, Finance, Business, and Project Management to meet job responsibilities and expertise requirements of International Standards.
- ISO and Legal Auditing which includes Gap Analysis Audits, Product, Process, Procedural, and Systems auditing by our registered SAATCA Auditors.
- Customised web-based solutions integrating current systems to be in line with ISO requirements.

We are a Level 1 BBBEE Contributor that specialises in systems development, consultancy, training, and auditing.