



EXPLAIN THE BIOPHYSICAL ENVIRONMENT

Unit Standard: 264456



Course Information



Qualification Title

National Certificate: Environmental Management

Course Title

Explain the Biophysical Environment

Course Level

5

Course Credits

10

Course Duration

Three days

Cost of Course

R 2 800,00 per delegate (excluding 15% VAT)

Course Overview

The purpose of this course is to equip the delegate with a broad overview of the biophysical environment, which includes the main concepts, characteristics, and challenges, especially within the South African context. In addition, the delegate will acquire the competencies to understand the impact of human living on the environment and the aspect of human vulnerability.

Environmental Management

Who Should Attend?	The course should be attended by individuals who are in the environmental industry and work with the physical components of the environment
Course Objectives	- Describe the physical components of the environment and their related concepts. - Explain biodiversity and its related aspects. - Explore the inter-relationships between the components and the systems. - Describe the challenges to the biophysical environment of South Africa. - Identify and explain environmental features on maps.
Benefits	Benefits of this course include: - Learning to identify and solve problems in which responses display that responsible decisions using critical and creative thinking have been made when determining threats to biodiversity and generating possible responses. - Improved ability to organise and manage oneself and one's activities responsively and effectively when: - Discussing the physical components of the environment. - Analysing biodiversity and its threats. - Analysing the interaction between the three spheres/systems. - Analysing maps to identify biophysical features. - Utilising informed decisions when collecting, analysing, organising, and critically evaluating information to determine responses to the threats to biodiversity.

Course Content

Course Modules	Course modules consist of: - Physical components of the environment in terms of their inter-relationships and their properties. - Related processes of the physical environment with specific reference to the South African context. - Identifying and explaining components of biodiversity within the South African context.
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	4. The importance of South Africa in terms of biodiversity, richness, and scientific importance. 5. Threats to biodiversity in South Africa and the mechanisms developed to counter them as part of the strategy to protect the environment. 6. How biodiversity targets for different regions are set (emphasising the importance of monitoring and conserving the country's biodiversity). 7. Identifying the systems that impact humans in terms of their components and functioning. 8. Inter-relationships between the components of each system in terms of the role they play in the system. 9. Inter-relationships between the systems in terms of their impact on humans. 10. Concept of the triple bottom line - a tool to analyse issues related to sustainable development. 11. Challenges to the biophysical environment in terms of their causes and effects. 12. Impact of the interventions made to counter these challenges and their evaluation to indicate the importance of appropriate and timeous interventions. 13. Identifying principles that guide South Africa's responses to these challenges are effective in creating awareness of the principles. 14. Aspects of climatology and meteorology in terms of their influence on the biophysical environment. 15. Interpreting maps according to the information portrayed. 16. Identifying and interpreting information indicated by certain aspects on the map as intended by the map maker. 17. Identifying and interpreting bio-physical features, landforms, and development features indicated on the map are per their original intent. 18. Aspects of maps that relate directly to environmental issues and the importance of maps in the work of an environment officer.
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 favourably 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.