MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

Environmental, Urban and Regional Planning

Ecosystem and Biodiversity Management

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2633	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course **View Online Course Page**

Course Overview

The Ecosystem and Biodiversity Management course offered by Magna Skills provides participants with a comprehensive understanding of ecosystems, biodiversity, and strategies for their effective management. This course covers key concepts, principles, and practices in ecosystem management, conservation biology, and biodiversity conservation, equipping participants with the knowledge and skills needed to address environmental challenges and promote sustainability.

Course Outcomes

- **Understanding Ecosystem Dynamics:** Gain insights into the structure, function, and dynamics of ecosystems, including interactions between biotic and abiotic components, and the factors influencing ecosystem stability and resilience.
- **Conservation Biology Principles:** Learn principles of conservation biology, including biodiversity assessment, conservation genetics, and habitat restoration, to support the conservation and management of biological diversity.
- **Ecosystem Services and Valuation:** Understand the concept of ecosystem services and their importance for human well-being, as well as methods for valuing ecosystem services to inform decision-making and policy development.
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Threats to Biodiversity: Identify and assess threats to biodiversity, including habitat loss, invasive species, pollution, climate change, and overexploitation, and explore strategies for mitigating these threats.

- **Sustainable Ecosystem Management:** Explore strategies and best practices for sustainable ecosystem management, including protected area management, sustainable land use planning, and community-based conservation initiatives.
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Course Outline / Curriculum

Module 1: Introduction to Ecosystems and Biodiversity

- Definition of ecosystems and biodiversity
- Importance of biodiversity for ecosystem functioning and human well-being

Module 2: Ecosystem Structure and Function

- Components of ecosystems (biotic and abiotic)
- Ecological interactions and energy flow in ecosystems

Module 3: Conservation Biology Principles

- Biodiversity assessment methods
- Conservation genetics and population management

Module 4: Ecosystem Services and Valuation

- Types of ecosystem services and their significance
- Methods for valuing ecosystem services

Module 5: Threats to Biodiversity

- Habitat loss and fragmentation
- Invasive species and pollution

Module 6: Climate Change and Biodiversity

- Impacts of climate change on biodiversity
- Adaptation and mitigation strategies

Module 7: Protected Areas Management

- Principles of protected area management
- Design, establishment, and management of protected areas

Module 8: Sustainable Land Use Planning

- Principles of sustainable land use planning
- Integrated landscape management approaches

Module 9: Community-Based Conservation

- Role of communities in biodiversity conservation
- Participatory conservation approaches and case studies

Module 10: Policy and Governance for Biodiversity

- International and national policies for biodiversity conservation
- Institutional frameworks and governance mechanisms

The Ecosystem and Biodiversity Management course equips participants with the knowledge and skills needed to understand, conserve, and sustainably manage ecosystems and biodiversity. Through a combination of theoretical learning, case studies, fieldwork, and interactive discussions, participants will develop a holistic understanding of ecosystem dynamics, biodiversity conservation principles, and effective strategies for promoting ecosystem health and resilience.

Target Audience

Ecologists, research assistants/analysts, science officers, or conservation assistants. Specific areas where professionals can practice include waste management, sustainable development, pollution prevention and control, contaminated land management, marine biology, and more

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

Southern Africa

Practical training destinations with strong travel access and delegate support.

- Pretoria, South Africa
- Vic Falls, Zimbabwe
- Livingstone, Zambia

East Africa

Popular regional centres for government, NGO and donor-funded project teams.

- Kigali, Rwanda
- Kampala, Uganda
- Nairobi,
- Zanzibar, Tanzania

West Africa & Islands

Strategic locations for regional networking and executive capacity building.

- Accra, Ghana
- Port Louis, Mauritius

International Executive Venue

Premium destination training for senior teams and international delegates.

- Dubai, United Arab Emirates

Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

- Online, E-Learning
- Remote Teams
- Flex

Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

- Onsite
- Custom Dates
- Group Training

Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

Register / Apply Online | **View Full Course Page**

About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training | NGO Capacity Building | Corporate Workshops | Online Learning | Face-to-Face Training | Certifica

Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

Organisation / Department	
Delegate Name(s)	
Approved Course	Ecosystem and Biodiversity Management
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____