



## PRE- CONFERENCE TRAINING COURSE 1



## BIODIVERSITY FOR SUSTAINABLE DEVELOPMENT

### Course Details

<b>Course title</b>	BIODIVERSITY FOR SUSTAINABLE DEVELOPMENT
<b>Level</b>	Intermediate
<b>Pre-requisites for participants</b>	<p>The prerequisites for participants to participate in the training programme are as follows:-</p> <ul style="list-style-type: none"> <li>• Participants need to be proficient in English</li> <li>• have the necessary baseline skills and qualifications required to do EIAs</li> <li>• Have an interest in incorporating biodiversity information into EIAs;</li> <li>• Have a desire to improve practice in order to achieve environmental sustainability in the landscape</li> </ul>
<b>Language of delivery</b>	English
<b>Duration</b>	1 day
<b>Minimum and maximum number</b>	15-40
<b>Trainer's names and contact details</b>	
Abigail Bahindwa (lead trainers)	0128435103 / 0725387372
Mthobisi Nzimande (lead trainers)	012 843 5000 / 0760794865
Shonisani Netshishivhe (facilitation support)	012 843-5031 / 0761455624
Rosina Millicent Masango (facilitation support)	0768621016

## Trainers

### Abigail Bahindwa (Kamineth)

#### **CURRICULUM VITAE**

##### **Personal details:**

Contact: 0725387372

Nationality: South Africa,

Gender: Female

Driver's license: Code B

Residential address: No.7 The Ferns, 331 Main Ave, Ferndale, Johannesburg

##### **Professional summary**

Experience in mainstreaming biodiversity into municipal planning processes (8 years) and Environmental Impact Assessments(EIAs), into provincial and national planning and regulatory and EIAs (5 years), Experience in implementing Biodiversity Stewardship at a municipal level (5 years) and at a provincial level (3 years), Experience in developing bioregional plans (3 years), Experience in urban conservation (8 years), Experience in implementing Metropolitan Open Space Management (MOSS) system (8 years),

Experience in developing and implementing various environmental management and biodiversity policies (3 years)

**Areas of expertise relevant to this context:** include knowledge, development and implementation of environmental management and biodiversity related policies, mainstreaming biodiversity into EIAs and planning frameworks, provide training on how to incorporate biodiversity into EIAs etc.

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##### **Education (highest qualification)**

Degree: *Baccalaureus Scientiae Magister* (Botany) (2004), University: University of Port Elizabeth

##### **Work history**

- **South African National Biodiversity Institute (SANBI): Specialist Advisor-Environmental Management (2016 – current) – In summary** managing the Environmental Management Programme of the SANBI Biodiversity and Land Use Project. The programme aims to develop a suite of environmental management tools and develop the capacity of EIA stakeholders to improve the mainstreaming of biodiversity into the regulatory framework.
- **Gauteng Department of Agriculture Rural Development (GDARD): Deputy Director : Biodiversity Mainstreaming and Stewardship (2013 – 2016) – in summary** Managed and development of GDARDs Biodiversity Stewardship Programme, Support 4 municipalities with publishing bioregional plans, supported the finalisation of deliverables of the Urban Component of the SANBI Grasslands Programme
- **Nelson Mandela Bay Municipality (NMBM) (2007 – 2013): Nelson Mandela Bay Metropolitan Open Space System (NMB MOSS) Co-ordinator, – in summary,** mainstream biodiversity into EIAs and into the land use planning process, managed an externally funded projects to further Biodiversity Stewardship and Urban Conservation goals, proclamation of nature reserves, training, rezoning of Critically Endangered biodiversity sites, lead the development of a bioregional plan, Environmental Management Framework EMF, conservation assessments and Strategic Environmental Assessment for the City.
- **Nelson Mandela Bay Municipality (NMBM) :EIA Co-ordinator (contract position), (2006 – 2007) –** mainstreaming biodiversity into EIAs and into the municipalities planning framework, ensuring that the environmental requirements municipal EIAs are in order. **South African National Biodiversity Institute (SANBI)-** Bioregional Programmes Project Officer, **(2004 – 2005) –** supporting the implementation of the Subtropical Thicket Ecosystem Project (STEP)

**References:** 1. **Name:** Azisa Parker **Organization:** SANBI **Cell:** 072 538 7372 **Email:** A.Parker@sanbi.org.za 2. **Name:** Eleanor McGregor, **Organization:** GDARD, **Contact:** 0664800442 **Email:** [Eleanor.VanDenBerg-McGregor@ecpta.co.za](mailto:Eleanor.VanDenBerg-McGregor@ecpta.co.za) 3. **Name:** Mr Joram Mkosana, **Organization:** NMBM, **Contact:** 0827821014, **Email:** [jmkosana@mandelametro.gov.za](mailto:jmkosana@mandelametro.gov.za)

# Mthobisi Nzimande

## Curriculum Vitae

cell: 076 076 4865 \* E-Mail: m.nzimande@sanbi.org

Date of Birth: 29 May 1990, Nationality: South African, Gender: Male, Home language: isiZulu, Drivers

Licence: Valid Code B

### EDUCATIONAL QUALIFICATION

- 2016:** Post Graduate Diploma: Food Security  
University of KwaZulu-Natal, Pietermaritzburg, South Africa
- 2008-2010:** Degree: Bachelor of Social Science Geography and Environmental  
Management  
University of KwaZulu-Natal, Pietermaritzburg, South Africa
- 2003-2007:** Grade 12: Alexander High School  
Pietermaritzburg, South Africa

### EMPLOYMENT HISTORY

**01 July 2017- Present: South African National Biodiversity Institute (SANBI).**

**Position:** Assistant Director: Biodiversity Planning and Implementation

**Component:** Biodiversity Information and Policy Advice

**10 February 2014 to 30 June 2017: Department of Economic Development, Tourism and Environmental Affairs (uMgungundlovu district).**

**Position:** Environmental Officer

**Component:** Environmental Impact Assessment

**01 July 2012 – 31 January 2014: KwaZulu-Natal Department of Agriculture and Environmental Affairs (Sisonke District).**

**Position:** Environmental Officer

**Component:** Environmental Planning, Information Management and Municipal support

**04 January 2012 – 31 March 2012: Ezemvelo KZN Wildlife**

**Position:** GIS Technician (intern).

**Component:** Scientific Services

### References

**Ezemvelo KZN Wildlife**

Mr Dominic Wieners

Conservation Planner

Tel: 033 845 1455

Cell: 084 660 0576

**KZN Department of Agriculture and Environmental Affairs**

Mr Sibusiso Mchunu

Acting District Manager, Harry-Gwala

Cell: 072 205 3441

Work: 039 834 76200

**KZN Department of Agriculture and  
Environmental Affairs**

Mrs Reka Bhikraj-Khallicharan

Assistant Manager: EIA

Cell: 082 922 0859

Work: 033 347 1820

## ROSINA MILLICENT MASANGO

**CURRICULUM VITAE** Contact: 076 862 1016

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**Personal details:** Nationality: South Africa, Gender: Female ,Driver's license: C1 (code 10)

Residential address: Stand No 17319

### **Professional summary**

Environmental officer with 5 years' experience. Areas of expertise include knowledge of policy and EIA legislation as well as understanding of the biodiversity mitigation hierarchy

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### **Skills:**

EIA and NEMA Knowledge, strong communication skills, Quality work, Reliability, Technical skills

### **Education**

Institution: TUT: ND Nature conservation, Year 2012. CEM- Environmental Impact Assessment for Reviewers & Environmental Impact Assessment & A practical Approach Short course certificate

### **Work history**

**Current position: Environmental Officer: Organization (SANBI) seconded DARDLEA :** Component: Land-use regulation and Environmental Management Experience includes: •Provide effective and efficient implementation of the Environmental Management component of the Biodiversity and Land –use management project within department of Agriculture rural development, land and environmental affairs •Ensure that policies and regulations with regard to application for activities identified in terms of section 24(2) a and (d) of the NEMA Act,1998 (Act 107 of 1998) are carried out and biodiversity priorities and the biodiversity hierarchy are integrated into assessment and decision making.

**Year 2013-2017 Environmental officer : Department DARDLEA:** EIA Experience includes: •Implementation of NEMA ( Act 107of 1998) •Process and review applications for Environmental Authorizations •Manage EIA applications •Review Basic Assessments, Scoping & EIA Reports and Environmental management Programmes •Provide technical and procedural advice and guidance to all stakeholders on environmental management with respect to land use applications •Provide Environmental Management Inspectors with relevant information and documentation to facilitate monitoring, investigations and complaints. Compile monthly reports, record keeping

**Year 2013 Jun -2013 November ,Kirstenbosch Botanical Gardens Designation: (Incumbent), Experience includes:** •General administration •Attending to the departmental reception area •General maintenance projects •Preparing Conservation reports, plans, publicity material and display •Fieldwork: assist with alien plant control and plant data collection •Species survey •Environmental education and communication •Helping with volunteer /students activities and conservation projects •Law enforcement; ECO.

**Year: 2010 to 2011. Organisation: South African foundation for the conservation of coastal sea birds (SANCCOB) Designation: Sea bird care and conservation rehabilitator (Intern) Experience includes:** •Mentored training program with strong focus on skill development •Ability to work under harsh environment •Conserve sea birds through rescue, rehabilitation and other vulnerable birds through artificial hand-rearing of orphaned sea birds •Participated in mentorship programmes and written and oral examination. Environmental education awareness

**Conference/s attended** • (IAIA), Durban, South Africa 16-19 May 218 • (IAIAsa), Western Cape 15-18 August 2017 •National Wetlands Indaba 2016- Mpumalanga, Swadini Forever resort, 25- 28 October 2016 • (IAIA), Kruger national park 19-23 October 2014

**References:** 1. Name: Abigail Kamineth Organization: SANBI (Tel work):012 843 5103 Cell: 072 538 7372 Email: A.Kamineth@sanbi.org.za 2. Name: Robyn Luyt, DARDLEA, Contact: 082 672 7868 Email: rluyt@mpg.gov.za 3. Name: Estate Manager Mr Elton Leroux (KNB)(SANBI) Contact: 021 799 8783 / 021 979 2090 Email:erleroux@sanbi.org.za

# SHONISANI NETSHISHIVHE

## **CURRICULUM VITAE**

Contact: 081 425 1325

**Personal details:** Nationality: South Africa, Gender: Female ,Driver's license: C1 (code 10)

Residential address: 111 SilverPlace, 617 Pretoria road, Silverton, 0184

### **Professional summary**

An Honours Graduate in Environmental Management with over five years' experience in Integrated Environmental Management. Sound knowledge of environment legislations. Flexible and a team player. Currently working as an Environmental Management Coordinator for the Biodiversity and Land Use (BLU) project at the South African Biodiversity Institute

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### **Skills:**

Good communication skills, Good planning and organisation skills, Preparation and presentation of reports

### **Education**

Institution: University of Venda: Honours Environmental Management, Year 2011. Institution: Proactive Collage: Project Management NQF 6

### **Work history**

**Current position: Current: Environmental Management Coordinator. South African National Biodiversity Institute: Experience includes:** Provide policy support, Conduct training amongst EAPs, government officials and other relevant stakeholders on biodiversity information. Support the development of biodiversity protocols for the DEA screening tool.

**Year November 2015-October 2018 Project Officer: Environmental Management:** Conduct research to ascertain the uptake of the Fynbos Forum and Grasslands Ecosystem Guidelines. Undertake capacity assessment to identify capacity gaps for mainstreaming biodiversity into EIAs. Support the implementation of the Environmental Management component of the BLU project

**Year March 2014 –October 2015, Association for Water and Rural Development. Biodiversity Researcher: Experience includes:** Undertake an assessment of mining compliance to environmental legislation. Assist the Natural Resource Management Programmes with prioritization and alignment of work and targets within Olifants catchment. Facilitate collaborative community based workshops on water related impacts on people's livelihoods

**Year: August 2013 to February 2014. Africa Institute of South Africa: Research Intern**

**Experience includes:** Conduct research on the proposed shale gas project to determine impacts on water, biodiversity and socio-economic status of the region. Conduct research on renewable energy technology.

**Conference/s attended •** (IAIA), Durban, South Africa 16-19 May 218 • Africa Institute of South Africa (AISA) Young Graduates and Scholars conference, Johannesburg, 17-19 February 2014

**References:** 1. Name: Abigail Kamineth (SANBI) (Tel work):012 843 5103 Cell: 072 538 7372 Email: [A.Kamineth@sanbi.org.za](mailto:A.Kamineth@sanbi.org.za) 2. Name: Mr Jan Graf (AWARD), Contact: 079 683 8404 Email: [jan@award.org.za](mailto:jan@award.org.za) 3. Name: Dr Manuel Magombeyi (AWARD) Contact: 073 026 8271 Email: [manumagomb@yahoo.com](mailto:manumagomb@yahoo.com)

## Course Description

The purpose of the course is to (a) improve the way in which criteria to prevent/minimise and offset impacts on biodiversity is applied by staff of regulatory authorities and other environmental management professionals and to (b) provide feedback to SANBI on the constraints experienced when mainstreaming biodiversity priorities into EIAs.

The course will provide useful guidance on how to integrate biodiversity information during the pre-application and application review processes as well as how to formulate defensible decisions. Anticipated learning outcomes include an improved understanding of:-

- The legal framework that allows for biodiversity issues to be considered as part of EIAs; What biodiversity information should be incorporated into EIAs;
- How biodiversity priorities are determined;
- Why approving development in biodiversity priorities negatively impact on achieving environmental sustainability in the landscape and how to assign significance ratings when considering such developments
- How to interpret biodiversity specialist input;
- What the different impacts on biodiversity are;
- How to apply alternatives in order to achieve environmental sustainability;
- What is considered appropriate mitigation?
- Crafting a credible and defensible environmental authorisation, which addresses the mitigation hierarchy, with auditable and enforceable conditions

## Course Outline

Time	Topic
08h00-08h30	Course registration
08h30- 08h45	<b>Session 1: Nature supporting livelihoods</b> <ul style="list-style-type: none"> <li>• Short film</li> <li>• Plenary discussion sharing messages around co-dependence between nature and livelihoods from the film and how to harness benefits from nature through employing appropriate natural resource management strategies.</li> </ul>
09h45-10h30	<b>Session 2: An environmental legal framework that enables landscape sustainability</b> <ul style="list-style-type: none"> <li>• explore the legal framework (The Constitution of the Republic of South Africa, 1996; National Environmental Management Act (107/1998); Environmental Impact Assessment Regulations, 2014; NEMA principles; etc.) and legal triggers that allow for the consideration of biodiversity as part of EIAs.</li> <li>• other relevant environmental legislation to be considered in the decision making process, eg National Forest Act (84/ 1998) for indigenous forests</li> </ul>
10h30-11h00	TEA/COFFEE BREAK
11h00-13h00	<b>Section 3: Biodiversity screening (interactive)</b> <ul style="list-style-type: none"> <li>• Unpacking the biodiversity aspects that EAP's and reviewers must consider when screening for biodiversity sensitivities in receiving environment.</li> <li>• deriving biodiversity priorities</li> <li>• identifying appropriate specialist studies,</li> <li>• typical impacts are on biodiversity,</li> <li>• landscape sustainability and contributions to human wellbeing and sustainable development.</li> <li>• Film – single species dynamics the delivery of ecosystem services</li> <li>• Game – developing understanding of biodiversity terminology.</li> </ul>
13h00-14h00	LUNCH
14h00-15h00	<b>Section 4: Application review support (interactive)</b> <ul style="list-style-type: none"> <li>• integration of biodiversity information into the various review elements of the EIA process.</li> <li>• needs and desirability of development,</li> <li>• applying the mitigation hierarchy,</li> <li>• understanding the development impacts on the receiving environment</li> <li>• interpreting specialist studies,</li> <li>• identifying appropriate mitigation measures,</li> <li>• applying significance ratings appropriately,</li> <li>• undertaking the site inspection and proposing effective monitoring</li> <li>• example EMP's.</li> </ul>
15h00-15h30	TEA/COFFEE BREAK
15h30-16h30	<b>Section 5: Making defensible decisions</b> <ul style="list-style-type: none"> <li>• incorporating learning outcomes of previous sessions towards defensible decision making based on the biodiversity information at their disposal.</li> <li>• Ensuring sustainability of landscapes</li> <li>• Becoming comprehensible to developers and compliance and monitoring and enforcement teams..</li> </ul>
16h30-17h00	Overview & Wrap Up

## Course Materials to be provided

Participants will be provided with a document pack that will include the following:-

- a reading list including all relevant articles and book chapters (participants will be required to do preparatory reading ahead of the course) ;
- Appropriate guidelines;
- Videos that will be presented during the course; and
- Case studies that will be worked on throughout the duration of the course.

Posters (explaining biodiversity and environmental management words and concepts) will be placed in the training venue to allow for learning during lunch and tea breaks.