

# Career Course Syllabus

## 1. 6 MONTHS COURSE CONTENT

- NQF2 Nature Site Guide (FGASA)
- FGASA Apprentice Trails Guide
- Rifle competency & Advanced Rifle Handling
- Wilderness First Aid level 1 and 2 (detailed syllabus below)
- Tracks & Signs (detailed syllabus below)
- Trailing (detailed syllabus below)
- Birding (ID of birds and sounds)
- Navigation & Orientation (detailed syllabus below)
- 4x4 Driving (detailed syllabus below)
- Principals of Reserve Management & Anti-Poaching
- Wildlife Photography
- Basic Mechanics
- Hospitality in 5-star environment

## 2. SYLLABUS NQF2 NATURE SITE GUIDE (FGASA)

The Nature Site Guide should be able to identify the major living and non-living features of the natural environment in which she/he operates and interpret them at a level based mainly on observation and from an elementary scientific and cultural perspective. As a general guideline, a guide must have sound knowledge of the history, geology, plants and animals (i.e. birds, mammals, reptiles, etc) in the specific area of operation.

## 3. THE NQF2 NATURE SITE GUIDE (FGASA) SYLLABUS INCLUDES THE FOLLOWING MODULES:

- Introduction to guiding in the natural environment
- Creating a guided nature experience
- Geology
- Astronomy
- Weather & Climate
- Basic Ecology
- Basic Taxonomy
- Introduction to the Biomes of Southern Africa

- Botany & Grasses
- Arthropods
- Amphibians
- Reptiles
- Fish
- Birds
- Mammals
- Conservation management and Historical Human Habitation

## MODULE 1

# Introduction to Guiding In the Natural Environment

On completion of this module, you will:

- Have an understanding of what a professional nature guide does and where s/he fits into the tourism guiding industry
- Know what the aims of nature guiding are
- Have an understanding of guiding ethics in the natural environment
- Have been introduced to a set of guiding principles and a code of conduct for guides from a FGASA and a Dept of Environmental Affairs and Tourism (DEAT) point of view and have an understanding of legal requirements

## MODULE 2

# Creating A Guided Nature Experience

On completion of this module, you will:

- Be able to carry out a pre-briefing before embarking on a guided experience
- Be aware of determining any medical considerations of your clients
- Be able to determine if your clients have any special interests before departing on the guided experience
- Have the ability to involve all of your clients as individuals in the guided experience
- Take into consideration the environmental factors when it comes to the comfort of your clients
- Have enhanced communication skills for guiding in the natural environment
- Be able to carry out research on potentially interesting sights
- Approach animals taking into consideration all the client and animal factors which will affect the approach
- Be able to orientate yourself during the day and at night making use of a number of methods to do so
- Know what procedures to follow when lost and have the ability to find water and edible food in the natural environment
- Be able to interpret all aspects of the natural environment to enhance the experience of your clients

**MODULE 3**

## Geology

**On completion of this module, you will:**

- Know what the meaning of Geology is
- Have a basic understanding of what the Earth consists of
- Know how rocks are classified
- Understand how igneous, sedimentary and metamorphic rocks are formed
- Know what a mineral is and be able to give a few examples
- Have an understanding and knowledge of a few common rock types
- Know the weathering properties of some common rock types
- Have an understanding of the interrelationships between rocks, soil, climate, vegetation and animals

**MODULE 4**

## Astronomy

**On completion of this module, you will:**

- Be able to understand by definition what is meant by a universe, galaxy and solar system
- Know the position of the nine planets in the solar system in terms of their distance from the Sun
- Be able to point out the constellations of Orion, Scorpio and the Southern Cross
- Be able to determine a southerly direction making use of the Southern Cross
- Be able to describe the phases of the moon as it is viewed from Earth
- Know what is meant by an eclipse and how to differentiate between a lunar and a solar eclipse in terms of the positioning of the Sun, Earth and Moon
- Know how the ocean tides are affected by the moon

**MODULE 5**

## Weather & Climate

**On completion of this module, you will:**

- Know the difference between weather and climate
- Understand the process of cloud formation
- Know the different types and names of clouds and what weather conditions are associated with these different cloud types and how this may affect the guiding experience
- Know the different types of local wind conditions that may apply to the area of guiding operation.
- Be able to describe the four major influences on the South African climate
- Understand the general Summer and Winter conditions of Southern Africa

**MODULE 6**

## Basic Ecology

On completion of this module, you will:

- Know what Ecology is and how important an understanding of ecology is for the nature guide
- Have a understanding of the major components of ecosystems
- Be able to explain the different levels of organisation in ecology
- Know what trophic pyramids, food chains and food webs are and how to give an explanation of these
- Be able to give an explanation of the nutrient cycle
- Be able to give an explanation and examples of symbiotic relationships
- Know what predation is and the various types of competition that occurs in the natural environment

**MODULE 7**

## Basic Taxonomy

On completion of this module, you will:

- Know what the meaning of taxonomy is
- Have an understanding of why and how living organisms are classified
- Be able to name the six kingdoms of living organisms
- Be able to place living organisms into the hierarchical order of classification

**MODULE 8**

## Introduction to The Biomes of Southern Africa

On completion of this module, you will:

- Know what a biome is
- Be able to name the seven major biomes in Southern Africa
- Be able to explain the biomes in terms of the amount of seasonal rainfall and temperature
- Know what the main indicator species are for each of the biomes in terms of animals and dominant vegetation types

**MODULE 9**

## Botany & Grasses

On completion of this module, you will:

- Know the anatomy of plants
- Know how to identify a tree and thus be able to apply this knowledge to identify any tree in Southern Africa
- Be able to give some interesting facts about trees in terms of general uses, and traditional beliefs associated with specific trees
- Know the anatomy of a grass plant

- Know how to identify a grass plant and thus be able to apply this knowledge to identify any grass plant in Southern Africa
- Know the differences between sweet and sour veld
- Be able to explain grassland succession
- Understand what is meant by the ecological status and the grazing value of grasses
- Understanding the basics of plant processes
- Understand leaf structures and how leaves are attached to a plant

## MODULE 10

# Arthropods (Insects & Relatives)

On completion of this module, you will:

- Know what both invertebrates and arthropods are
- Know what the characteristics of insects are
- Be able to explain the three different types of insect life-cycles and give examples of each
- Understand why insects are so successful and the ecological importance of insects
- Have a basic understanding of insect flight and their feeding behavior
- Be able to identify common insect orders
- Be able to explain the difference between insects and spiders
- Know what the characteristics of the Arachnid are and be able to place spiders two main sub orders
- Know how to recognize the venomous spiders in South Africa which are of medical importance to human beings and know what type of venom they have
- Know what the characteristics of scorpions are and how to distinguish between the two main types of scorpions
- Know what the differences are between Millipedes and Centipedes and their particular feeding behaviour

## MODULE 11

# Amphibians (Frogs & Toads)

On completion of this module, you will:

- Know the characteristics of the class of amphibians and be able to explain the differences between frogs and toads and their calls
- Understand the life cycle of frogs and toads and be able to explain metamorphosis
- Be able to explain mating postures, nests and types of eggs of frogs and toads
- Be able to name and explain the different types of frog calls
- Be able to identify some of the more common frogs by their calls

## MODULE 12

# Reptiles

On completion of this module, you will:

- Know the characteristics of the class of reptiles
- Be able to identify the features of the three reptile orders

- Be able to identify the features of Turtles, Tortoises and Terrapins
- Be able to identify the features of skinks, lizards, agamas, geckos, chameleons, monitors and snakes
- Know how to identify the more common species of snakes as well as the potentially lethal families and species of snakes
- Be able to name the different types of snake venom, symptoms and effects
- Be able to classify snakes in terms of the different teeth structures
- Know the different types of reproduction in snakes
- Have a basic understanding of the senses of snakes
- Know some interesting facts about reptiles
- Be able to talk interestingly about the Nile crocodile

### MODULE 13

## Fish

On completion of this module, you will:

- Know the classification of fish
- Be able to label the external anatomy of a fish
- Understand the ecological importance of fish
- Be able to explain how fish reproduce and grow
- Know the different types of fish feeding behaviour
- Understand how fish move through water
- Be able to explain the concepts of neutral buoyancy and the swim bladder
- Know how the lateral line system works in fish and why it is important
- Be able to identify common species of fish

### MODULE 14

## Birds

On completion of this module, you will:

- Know the characteristics of the class of birds
- Understand the difference between passerines and non-passerines
- Be able to give explanations of the various feeding methods and type of food that birds eat
- Be able to point out examples of prominent bird species nests
- Be able to give a basic explanation of commonly displayed bird behaviour
- Know how to identify birds making use of various identification pointers
- Be able to identify the prominent and common bird species
- Be able to describe both altricial and precocial bird
- Be able to explain “brood parasite” and provide some local common examples

### MODULE 15

## Mammals

On completion of this module, you will:

- Know the characteristics of the class of mammals
- Know the characteristics of the sub-classes of mammals

- Be able to explain the foot structure and digestive systems of ruminants and hindgut fermenters
- Be able to give the basic physical characteristics, social and feeding habits, habitat and distribution of the common species of mammals
- Be able to differentiate between males and females and common mammal species
- Have basic behavioural knowledge of the main indicator species (“flagship”)

## MODULE 16

# Animal Behaviour

On completion of this module, you will:

- Know what animal behaviour is
- Understand the different grouping behaviour of animals
- Be able to explain the different forms of animals’ communication making use of relevant examples
- Have an understanding of various types of animal protective behaviour
- Be able to explain the differences between animal home-ranges and territories
- Be able to identify and interpret animal signs and sounds

## MODULE 17

# Conservation Management & Historical Human Inhabitants

On completion of this module, you will:

- Know what conservation practices are used in the natural environment
- Understand why and how these conservation practices are carried out
- Know what a Trans frontier/ Peace Park is and be able to give some examples
- Know what a Biosphere Reserve is, why they are established and be able to give some examples of working Biosphere reserves
- Have knowledge and an understanding of the early human inhabitants of Southern Africa.
- Be able to explain the three Stone Age periods that took place in Southern Africa and some of the more interesting Stone age sites and their significance
- Be able to explain the characteristics of the Iron Age sites in Southern Africa and their significance
- Have an understanding of the distribution of traditional Southern African cultures

This module 17 will cover the absolute basics in terms of the topics included, and is thus only a very brief introduction to conservation management and Historical Human Habitation of Southern Africa.

a) The conservation management section of this module will include the following:

- The use of fire as a management tool
- Bush encroachment and alien plant control
- Erosion control/ Road maintenance
- Animal population control

b) The Historical Human Habitation section of this module will include the following:



- A brief history of humans in Southern Africa
- The early Stone Age
- The Middle Stone Age
- The Later Stone Age
- The Iron Age
- The distribution of traditional Southern African cultures based on language

#### 4. SYLLABUS- FGASA APPRENTICE TRAILS GUIDE

A FGASA Apprentice Trails Guide (Back-up trails Guide) is an individual who is in training (in an apprentice program) to become a Trails Guide and will learn how to function as 2nd Rifle and later as 1st Rifle during the training phase. The apprentice program is a stepping stone in the process for a guide to attain a FGASA Trails Guide qualification and is not yet qualified to conduct trails or walks in areas with dangerous game in absence of a FGASA Trails Guide (NQF4), Professional Trails Guide, or SKS (DG) Guide

##### MODULE 1

## Approaching Animals on Foot

- Rules for walking in the bush – clients informed about procedures before departing on walks
- Approaching dangerous game – Guidelines when dealing with dangerous game
- Comfort zones and personal space
- Responses to charging animals
- Client restrictions on walks
- Guest checks before a walk
- Guest briefing before walks
- Approaching dangerous game
- Areas to walk through carefully or avoid walking through altogether

##### MODULE 2

## Weapon Handling

- Rifle requirements
- Additional Firearms
- Rifle loading
- State of readiness
- Rifle operation in dangerous situations
- Carrying a rifle
- The function and position of the armed backup or tracker
- Rifles along on game drives
- Rules and safe handling of fire arms
- Mechanics of the bolt action rifle
- Rifle ballistics
- Cleaning and Maintenance



**MODULE 3**

# Dangerous Animal Knowledge

- General information of white and black rhinoceros, lion, leopard, buffalo, elephant and hippo

**MODULE 4**

# Sections of Firearm Control Act

- (Act 60 of 2000) relevant to nature guides

## 5. SYLLABUS ANIMAL TRACKS AND TRACKING / TRAILING

- Track & sign interpretation
- Trailing interpretation
- Gaits
- Track & Sign interpretation and evaluation by Cyber-Tracker

## 6. SYLLABUS NAVIGATION AND ORIENTATION

- Compass and maps
- Global positioning system
- Celestial indicators
- Natural phenomena

## 7. SYLLABUS 4X4 DRIVING

- General safety
- When to use high- and low-range
- Differentials, hubs and traction control
- Tyre pressure
- Descents/ Ascents
- Driving on or through sand, grass, mud, rocks, and water



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