

## CARRY OUT APIARY ESTABLISHMENT

**UNIT CODE: 0811 341 04A**

**TVET CDACC UNIT CODE: AGR/OS/API/CR/01/4/MA**

### UNIT DESCRIPTION

This unit covers the competencies required to carry out apiary establishment. It involves selecting apiary site, preparing apiary site, constructing bee house, installing bee hives and stocking bee hives.

### ELEMENT AND PERFORMANCE CRITERIA

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
These describe the key outcomes which make up workplace function	These are assessable statements which specify the required level of performance for each of the elements. <i><b>Bold and italicized terms are elaborated in the Range</b></i>
1. Select Apiary Site	1.1 <i><b>Personal protective equipment (PPEs)</b></i> are worn as per work requirement 1.2 Farm layout for apiary siting is designed as per National Bee Keeping Manual 1.3 Apiary site is identified as per National Bee Keeping Manual 1.4 Site selection records are maintained as per work requirement
2. Prepare Apiary Site	2.1 Personal protective equipment (PPEs) are worn as per work requirement 2.2 <i><b>Tools, equipment and materials</b></i> are assembled as per work requirement 2.3 Apiary site is cleared as per work requirement 2.4 Apiary site is levelled as per work requirement 2.5 Apiary site is demarcation as per work requirement 2.6 Site preparation records are maintained as per work requirement 2.7 Farm waste is managed as per Environmental protection regulations
3. Construct Bee house	3.1 Personal protective equipment (PPEs) are worn as per

	<p>work requirement</p> <p>3.2 Tools, equipment and materials are assembled as per work requirement</p> <p>3.3 Size of the bee house is determined as per National Bee Keeping Manual</p> <p>3.4 Bee house is constructed as per the National Bee Keeping Manual</p> <p>3.5 Bee house construction records are maintained as per work requirement</p> <p>3.6 Bee house construction waste is managed as per Environmental protection regulations</p>
4. Install bee hives	<p>4.1 Personal protective equipment (PPEs) are worn as per work requirement</p> <p>4.2 Tools, equipment and materials are assembled as per work requirement</p> <p>4.3 <b>Bee hives</b> are assembled as per workplace procedures</p> <p>4.4 Bee hives are cleaned as per National Bee Keeping Manual</p> <p>4.5 Bee hives are labelled as per National Bee Keeping Manual</p> <p>4.6 Bee hives are baited as per National Bee Keeping Manual</p> <p>4.7 Bee hives stands are fixed as per the workplace procedures</p> <p>4.8 Bee hives are suspended between posts as per National Bee Keeping Manual</p> <p>4.9 Bee hives installation records are maintained as per work requirement</p> <p>4.10 Waste is managed as per Environmental protection regulations</p>
5. Stock bee hives	<p>5.1 Personal protective equipment (PPEs) are worn as per work requirement</p> <p>5.2 Tools and equipment are assembled as per work requirement</p> <p>5.3 Bee swarm is trapped as per National Bee Keeping Manual</p> <p>5.4 Bee lures and attractants are applied as per National Bee Keeping Manual</p> <p>5.5 Strong bee colonies are divided as per National Bee Keeping Manual</p>

	5.6 Stocking records are maintained as per work requirement 5.7 Waste is managed as per Environmental protection regulations
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## RANGE

This section provides a work environment and conditions to which the performance criteria apply. It allows for a different work environment and situations that will affect performance.

Variable	Range
1. Personal Protective Equipment (PPEs) may include but not limited to:	1.1 Gumboots 1.2 Gloves 1.3 Dust coat 1.4 Overall 1.5 Bee suit
2. Tools, Equipment and Materials may include but not limited to:	2.1 Jembe 2.2 Monkey strainer 2.3 Hammer 2.4 Tape measure 2.5 Slasher 2.6 Rake 2.7 Hand saw 2.8 Chain link 2.9 Barbed wire 2.10 Poles 2.11 Nails
3. Bee hives include but not limited to:	3.1 Langstroth bee hive 3.2 Kenya Top Bar Hive (KTBH) 3.3 Log hive

## REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

### Required Skills

The individual needs to demonstrate the following skills:

- Organizing skills

- Analytical skills
- Interpersonal skills
- Communication skills
- Evaluation skills
- Problem solving
- Critical thinking
- Appropriate use of tools and equipment.
- Numeracy
- Digital literacy

### Required Knowledge

The individual needs to demonstrate knowledge of:

- Types of bee hives
- Importance of baiting
- Materials used for baiting
- Factors considered while selecting an apiary site
- Hive placement methods
- Bee swarming
- Bee colony

### EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical aspects of Competency	1.1 Identified apiary site as per National Bee Keeping Manual 1.2 Cleared apiary site as per work requirement 1.3 Fixed poles as per work requirement 1.4 Fenced off apiary site as per work requirement 1.5 Baited bee hives as per National Bee Keeping Manual 1.6 Suspended bee hives between posts as per National Bee Keeping Manual 1.7 Constructed bee house as per National Bee Keeping Manual 1.8 Trapped bee swarms as per National Bee Keeping Manual
2. Resource Implications	2.1 The following resources should be provided: 2.2 Appropriately simulated environment where

	<p>assessment can take place.</p> <p>2.3 Access to relevant assessment environments.</p> <p>2.4 Resources relevant to the proposed assessment activity or tasks.</p>
3. Methods of Assessment	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Written tests</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Oral questions</li> </ul>
4. Context of Assessment	<p>This competency maybe assessed in a workplace or in a simulated workplace.</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>