

BEE BEHAVIOR IN BEE HANDLING

UNIT CODE: 0811 341 05 A

TVET CDACC UNIT CODE: AGR/CU/API/CC/01/4/MA

UNIT DURATION: 80 Hours

Relationship to Occupational Standard

This unit addresses the Unit of Competency: Apply bee behavior in handling bees

Unit Description

This unit covers the competencies required to apply bee behavior in handling bees. It involves applying knowledge of bee communication behavior, reproductive bee behavior and bee swarming behavior.

Summary of learning outcomes

By the end of this unit of learning, the trainee should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Apply knowledge of bee communication behavior	30
2.	Apply knowledge of reproductive bee behavior	30
3.	Apply bee swarming behavior	20
Total		80

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1 Apply knowledge of bee communication behaviour	1.1 Bee communication behaviour 1.1.2 Dances 1.1.3 Pheromones 1.2 Conflict resolution using bee communication behaviour 1.3 Colony strengthening using bee communication behaviour 1.4 Colony unit defense using bee communication behaviour	• Practical • Project • Written tests • Third party report • Portfolio of evidence • Oral questions
2. Apply knowledge of reproductive bee behaviour	2.1 Bee reproductive behaviour in bee colony management 2.2 Bee reproductive behaviour in breeding 2.3 Bee reproductive behaviour in control of inbreeding	• Practical • Project • Written tests • Third party report • Portfolio of evidence • Oral questions
3. Apply knowledge of bee swarming behavior	3.1 Bee swarming behavior 3.1.1 Reasons for swarming 3.1.2 Signs of swarming 3.1.2 Stages for swarming 3.1.2 Control for swarming 3.2 Bee swarming behavior in colonies management 3.3 Bee swarming behavior in colony division	• Practical • Project • Written tests • Third party report • Portfolio of evidence • Oral questions

Suggested Methods of Instruction

- Group discussion
- Project
- Direct instruction
- Project-Based Learning (PBL)
- Demonstrations

Recommended Resources for 25 Trainees

s/no	Items	Specifications	Quantity	Ratio
1.	Lecture room		1	1:25
2.	Projector		1	1:25
3	Laptop		1	1:25
4	Forceps		5	1:5
5	Sweep nets		15	1:2
6	identification charts		15	1:2
7	killing insect bottles		15	1:2
8	mounting boards		15	1:2
9	mounting pins		50	2:1
1.	Colonised bee hives		5	1:5