

## DRAUGHT ANIMALS MANAGEMENT

**UNIT CODE:** 0811 551 25A

**TVET CDACC UNIT CODE:** AGR/CU/AP/CR/01/6/MA

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage draught animals.

**Duration of the unit: 80 Hours**

### UNIT DESCRIPTION

This unit describes knowledge, skills and attitudes required to carry out camel, donkey and horse production. It involves carry out camel production, carry out donkey production and carry out horse production.

### Summary of Learning Outcomes

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

| S/No         | Learning Outcomes           | Duration (Hours) |
|--------------|-----------------------------|------------------|
| 1.           | Carry out camel production  | 30               |
| 2.           | Carry out donkey production | 20               |
| 3.           | Carry out horse production  | 20               |
| <b>Total</b> |                             | <b>80</b>        |

### Learning Outcomes, Content and Suggested Assessment Methods

| Learning Outcomes             | Content  | Suggested Assessment Methods   |
|-------------------------------|--|--|
| 1. Carry out camel production | 1.1. Camel production structures <ul style="list-style-type: none"><li>• Crushes</li><li>• Milking parlour</li></ul> | <ul style="list-style-type: none"><li>● Written assessment</li><li>● Practical</li><li>● Projects</li><li>● Third party report</li></ul> |

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|  | <ul style="list-style-type: none"> <li>• Barn</li> <li>• Feeding facility</li> <li>• Camel shed</li> <li>• Camel dips</li> <li>• Feed storage facility</li> </ul> <p>1.2. Identification methods</p> <ul style="list-style-type: none"> <li>• Ear tags</li> <li>• Ear notching</li> <li>• Branding</li> <li>• Neck chains</li> <li>• Straps with numbers</li> <li>• Ear tattooing</li> </ul> <p>1.3. Construction materials for camel production structures</p> <ul style="list-style-type: none"> <li>• Timber</li> <li>• Iron sheets</li> <li>• Cement</li> <li>• Nails</li> <li>• Pipes</li> </ul> <p>1.4. Tools and equipment for camel production.</p> <p>1.5. Construction of camel production structures</p> <p>1.6. Camel breeds</p> <ul style="list-style-type: none"> <li>• Dromendary</li> <li>• Bactrian</li> <li>• Somali</li> <li>• Rendille/ Gabbras</li> <li>• Turkana</li> <li>• Pakistani</li> </ul> <p>1.7. Breed selection</p> | <ul style="list-style-type: none"> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul> |
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|-----------------------------------|--|--|
|                                   | 1.8. Heat signs<br>1.9. Rutting signs<br>1.10. Camel breeding<br>1.11. Pregnancy diagnosis<br>1.12. Parturition management<br>1.13. Camel calf rearing<br>1.14. Milking methods and techniques<br>1.15. Routine management practices<br>1.16. Marketing of camel products and by-products<br>1.17. Camel production records  |  |
| 2. Carry out<br>Donkey production | 2.1. Donkey farm layout<br>2.2. Donkey production structures <ul style="list-style-type: none"> <li>• Crushes</li> <li>• Barn</li> <li>• Feeding facility</li> <li>• Donkey shed</li> <li>• Donkey dips</li> <li>• Feed storage facility</li> </ul> 2.3. Identification methods <ul style="list-style-type: none"> <li>• Ear tags</li> <li>• Ear notching</li> <li>• Branding</li> <li>• Neck chains S</li> <li>• Straps with numbers</li> <li>• Ear tattooing</li> </ul> 2.4. Construction materials for donkey production structures <ul style="list-style-type: none"> <li>• Timber</li> <li>• Iron sheets</li> </ul> | ➤ Written assessment<br>➤ Practical<br>➤ Projects<br>➤ Third party report<br>➤ Portfolio of evidence<br>➤ Oral questions |

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|  | <ul style="list-style-type: none"> <li>• Cement</li> <li>• Nails</li> <li>• Pipes</li> </ul> <p>2.5. Tools and equipment for donkey production.</p> <p>Construction of donkey production structures</p> <p>2.6. Donkey breeds</p> <ul style="list-style-type: none"> <li>● East African</li> <li>● Maasai</li> <li>● Somalia</li> </ul> <p>2.7. Breeding male selection</p> <p>2.8. Heat signs</p> <p>2.9. Donkey breeding</p> <ul style="list-style-type: none"> <li>• Natural</li> <li>• Artificial insemination</li> <li>• Embryo transfer</li> </ul> <p>2.10. Pregnancy diagnosis</p> <p>2.11. Parturition management</p> <p>2.12. Donkey calf rearing</p> <p>2.13. Milking techniques</p> <ul style="list-style-type: none"> <li>• Stripping method</li> <li>• Full hand method</li> <li>• Knuckling method</li> <li>• Machine milking</li> </ul> <p>2.14. Routine management practices</p> <ul style="list-style-type: none"> <li>● Housing</li> <li>● Feeding</li> <li>● Hoof care</li> <li>● Dental care</li> </ul> |  |
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|                                |  |  |
|--------------------------------|--|--|
|                                | <ul style="list-style-type: none"> <li>● Handling and Training</li> <li>● Record keeping</li> <li>● Deworming</li> </ul> <p>2.15. Marketing of donkey products and by-products</p> <p>2.16. Donkey production records</p>  |  |
| 3. Carry out Horse production. | <p>3.1. Horse rearing structures</p> <ul style="list-style-type: none"> <li>● Crushes</li> <li>● Barn</li> <li>● Feeding facility</li> <li>● Horse shed</li> <li>● Horse dips</li> <li>● Feed storage facility</li> </ul> <p>3.2. Horse breeds and their characteristics</p> <ul style="list-style-type: none"> <li>● Light horses</li> <li>● Draft horses</li> <li>● Ponies</li> <li>● Gaited horses</li> <li>● Warmbloods</li> </ul> <p>3.3. Breeding in horses</p> <p>3.4. Selection of stallion and mare</p> <p>3.5. Heat detection</p> <p>3.6. Breeding methods</p> <ul style="list-style-type: none"> <li>● Natural</li> <li>● Artificial insemination</li> <li>● Embryo transfer</li> </ul> <p>3.7. Pregnancy diagnosis</p> <p>3.8. Pregnancy management</p> <p>3.9. Foaling and foal management</p> <p>3.10. Foaling weaning</p> | <ul style="list-style-type: none"> <li>● Written assessment</li> <li>● Practical</li> <li>● Projects</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul> |

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|  | 3.11. Routine management practices <ul style="list-style-type: none"> <li>• Housing</li> <li>• Feeding</li> <li>• Hoof care</li> <li>• Dental care</li> <li>• Handling and Training</li> <li>• Record keeping</li> <li>• Deworming</li> </ul> 3.12. Bio-security practices <ul style="list-style-type: none"> <li>• Fencing</li> <li>• Footbath</li> <li>• signage</li> </ul> 3.13. Records management |  |
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#### Suggested methods of delivery

- Practical
- Project
- Demonstration
- Group Discussions
- Direct instruction

#### Recommended resources for 25 trainees

| S/No.    | Category/Item             | Description/<br>Specifications          | Quantity | Recommended<br>Ratio<br>(Item: Trainee) |
|----------|---------------------------|---|----------|---|
| <b>A</b> | <b>Learning Materials</b> |   |          |   |
| 1        | Charts                    | Flip Charts<br>Rules and<br>Regulations | 5        | 1:5                                     |
| 2.       | Markers                   | whiteboard<br>markers and               | 50       | 1:1                                     |

|          |   |  |            |      |
|----------|---|--|------------|------|
|          |   | permanent markers  |            |      |
| 3.       | Video clips<br>Audio tapes                      | MP4, MP3   | 5          | 1:5  |
| 4.       | Newspapers and Handouts                         | Daily  | 25         | 1:1  |
| 5.       | Business Journals                               | Annual, Monthly,<br>Daily                                      | 25         | 1:1  |
| <b>B</b> | <b>Learning Facilities &amp; Infrastructure</b> |  |            |      |
| 1.       | Lecture/Theory Room                             | (9* 8 sq. metres)  | 1          | 1:25 |
| 2.       | Internet Connection                             | WI-FI, Dial-Up, Cable,<br>Fixed-wireless,                      | 1          | 1:25 |
| 3.       | 2 Crushes                                       | Surrounding fish pond  | 1          | 2:25 |
|          | Milking parlour                                 |  | 1          | 1:25 |
|          | Barn  |  | 1          | 1:25 |
|          | Feeding facility                                |  | 5          | 1:5  |
|          | Camel shed                                      |  | 1          | 1:25 |
|          | Feed storage facility                           |  | 2          | 2:25 |
|          |   |  |            |      |
| 4.       |   | sufficient   | 1          | 1:25 |
| <b>C</b> | <b>Consumable Materials</b>                     |  |            |      |
| 1.       | Flashcards                                      | Alphabet, Numbers, Math  | 25         | 1:1  |
| 2.       | Stationery                                      | Printing Papers, and<br>Exercise Books Sizes A4,<br>A3, A2 etc | 5 reams    | 1:5  |
| 3.       |   | sufficient   | 5          | 2:5  |
| 4.       | Timber  | any  | sufficient |      |
| 5.       | Iron sheets                                     | any  | sufficient |      |

|          |   |   |   |   |
|----------|---|---|---|---|
| 6.       | Cement  | any   | sufficient  |   |
| 7        | chemicals   | <ul style="list-style-type: none"> <li>• Insecticides</li> </ul>    | sufficient  |   |
|          |   | <ul style="list-style-type: none"> <li>• Larvicides</li> </ul>      | sufficient  |   |
|          |   | <ul style="list-style-type: none"> <li>• Rodenticides</li> </ul>    | sufficient  |   |
|          | <ul style="list-style-type: none"> <li>• Lethal ovitraps</li> </ul> | <ul style="list-style-type: none"> <li>• Lethal ovitraps</li> </ul> | <ul style="list-style-type: none"> <li>• Lethal ovitraps</li> </ul> | <ul style="list-style-type: none"> <li>• Lethal ovitraps</li> </ul> |
| <b>D</b> | <ul style="list-style-type: none"> <li>• Repellent</li> </ul>       |   |   |   |
| 1.       | Computers/Laptops   | Any model   | 1   | 1:25  |
| 2.       | Projector   | LED.LCD, Laser  | 5   | 1:5   |
| 3.       | Whiteboard  | Glass, melamine, porcelain  | 1   | 1:25  |
| 4.       | Laboratory  | Well equipped   | 1   | 1:25  |
| 5.       | Ear tags  | any   | 5   | 1:5   |
| 6        | Branding tool   | any   | 5   | 1:5   |
| 7.       | Neck chains   | any   | 5   | 1:5   |
| 8.       | Straps with numbers   | any   | 1   | 1:25  |
| 9.       | Ear tattooing tool  | any   | 2   | 2:25  |
| 10.      | Milking bucket  | Steel   | 5   | 1:25  |
|          | Milk strainer   |   | 5   | 1:25  |
|          | Milk churn  | Steel   | 5   | 1:25  |
|          | Milk weighing scale   | any   | 2   | 2:12  |

|          |                            |     |   |     |
|----------|----------------------------|-----|---|-----|
|          | Milking salve<br>Strip cup | any | 3 | 3:8 |
| <b>F</b> | <b>Specimen</b>            |     |   |     |

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