

## MANAGE DRAUGHT ANIMALS

UNIT CODE: 0811 551 25A

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

### UNIT DESCRIPTION

This unit describes knowledge, skills and attitudes required to carry out camel, donkey and horse production. It involves constructing camel, donkey and horse production structures; carrying out camel, donkey and horse breeding; carrying out routine management practices and marketing camels, donkeys and horses.

### ELEMENTS AND PERFORMANCE CRITERIA

| ELEMENT                                                           | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 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.<br><i><b>Bold and italicized terms are elaborated in the Range.</b></i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1. Carry out camel production                                     | 1.1 <i><b>Camel production structures</b></i> are identified and designed based on Camel Production Manual (CPM)<br>1.2 <i><b>Materials for construction</b></i> of camel production structure are identified based on the design of the structure<br>1.3 Tools and equipment for Camel production structures construction are assembled based on structure selected<br>1.4 Camel production structure is constructed as per the design<br>1.5 <i><b>Camel breeds</b></i> are identified and selected based on Camel Production Manual (CPM)<br>1.6 Selection of breeding male and female camels is done according to CPM<br>1.7 Heat signs are detected as per the CMP<br>1.8 Rutting signs are detected as per the CPM.<br>1.9 Breeding of camel is carried out based on GAPs<br>1.10 Pregnancy diagnosis is performed as per the CPM<br>1.11 Parturition is managed as per the CPM<br>1.12 <i><b>Rearing of camel calf</b></i> is carried out as per the CPM<br>1.13 <i><b>Milking methods and techniques</b></i> are applied during milking as per LPM and CPM |

| ELEMENT                                                           | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                                                   | 1.14 Camel production routine management practices are performed as per the CPM<br>1.15 Camel, camel products and by-products are sold based on market demand<br>1.16 Records are prepared based on the workplace guidelines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2. Carry out donkey production                                    | 2.1 Donkey farm layout is designed based on LPM and CPM<br>2.2 <i><b>Donkey production structures</b></i> are identified and designed based on CPM<br>2.3 <i><b>Materials for construction</b></i> of donkey production structure are identified based on the design of the structure<br>2.4 Tools and equipment for donkey production structures construction are assembled based on structure selected<br>2.5 Donkey structures are constructed as per the design<br>2.6 <i><b>Donkey breeds</b></i> are identified and selected based on Camel Production Manual (CPM)<br>2.7 Selection of breeding male and female donkeys is done according to CPM<br>2.8 Heat signs are detected as per the CMP<br>2.9 Breeding of camel is carried out based on GAPs<br>2.10 Pregnancy diagnosis is performed as per the CPM<br>2.11 Parturition is managed as per the CPM<br>2.12 <i><b>Rearing of a foal</b></i> is carried out as per the CPM<br>2.13 Donkey production routine management practices are performed as per the CPM<br>2.14 Donkey is marketed based on demand and existing legislative frameworks<br>2.15 <i><b>Records</b></i> are prepared based on the workplace guidelines |
| 3. Carry out horse production                                     | 3.1 <i><b>Horse rearing structures</b></i> are identified as per Horse Care Manual (HCM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| <b>ELEMENT</b>                                                    | <b>PERFORMANCE CRITERIA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                   | <p>3.2 <i><b>Horse types</b></i>, characteristics and common uses are identified based on (HCM)</p> <p>3.3 <i><b>Breeding decisions</b></i> are made according to HCM</p> <p>3.4 Selection criteria for stallion and mare that have reached puberty is performed according to HCM</p> <p>3.5 Heat detection is carried out as per the HCM</p> <p>3.6 <i><b>Breeding methods</b></i> are applied to serve mares on heat as per HCM</p> <p>3.7 Pregnancy diagnosis is performed as per HCM</p> <p>3.8 Mare care during pregnancy is provided according to the HCM</p> <p>3.9 Foaling and foal care management is performed as per HCM</p> <p>3.10 Foal weaning is carried out as per HCM</p> <p>3.11 Horse routine management practices are carried out as per HCM</p> <p>3.12 Bio-security practices are carried out in accordance to HCM</p> <p>3.13 Records are maintained as per workplace requirements</p> |

## **RANGE OF VARIABLES**

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

| <b>VARIABLE</b>                                  | <b>RANGE</b>                                                                                                                   |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Camel breeds may include but not limited to;  | <ul style="list-style-type: none"> <li>• Somali</li> <li>• Rendille/ Gabbra</li> <li>• Turkana</li> <li>• Pakistani</li> </ul> |
| 2. Donkey breeds may include but not limited to; | <ul style="list-style-type: none"> <li>• East African</li> <li>• Maasai</li> </ul>                                             |

| <b>VARIABLE</b>                                                 | <b>RANGE</b>                                                                                                                                                                                                    |
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|                                                                 | <ul style="list-style-type: none"> <li>• Somalia</li> </ul>                                                                                                                                                     |
| 3. Horse breeding decisions may include but not limited to;     | <ul style="list-style-type: none"> <li>• Defining breeding goals</li> <li>• Selection of breeding stock</li> <li>• Mare health pre-breeding</li> </ul>                                                          |
| 4. Breeding method may include but not limited to;              | <ul style="list-style-type: none"> <li>• Natural</li> <li>• Artificial insemination</li> <li>• Embryo transfer</li> </ul>                                                                                       |
| 5. Camel production structures may include but not limited to;  | <ul style="list-style-type: none"> <li>• Crushes</li> <li>• Milking parlour</li> <li>• Barn</li> <li>• Feeding facility</li> <li>• Camel shed</li> <li>• Camel dips</li> <li>• Feed storage facility</li> </ul> |
| 6. Donkey production structures may include but not limited to; | <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>                          |
| 7. Horse rearing structures may include but not limited to;     | <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>                            |
| 8. Horse types may include but not limited to;                  | <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>                                                       |

| <b>VARIABLE</b>                                                             | <b>RANGE</b>                                                                                                                                                                            |
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| 9. Materials for construction may include but not limited to;               | <ul style="list-style-type: none"> <li>• Timber</li> <li>• Iron sheets</li> <li>• Cement</li> <li>• Nails</li> <li>• Pipes</li> </ul>                                                   |
| 10. Camel and donkey identification methods may include but not limited to; | <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> |
| 11. Camel and donkey castration methods may include but not limited to;     | <ul style="list-style-type: none"> <li>• Closed castration</li> <li>• Open castration</li> <li>• Chemical</li> </ul>                                                                    |
| 12. Camel diseases may include but not limited to;                          | <ul style="list-style-type: none"> <li>• Trypanosomiasis</li> <li>• Camel mange disease</li> <li>• Camel pox</li> <li>• Anthrax</li> <li>• Salmonellosis</li> </ul>                     |
| 13. Donkey diseases may include but not limited to;                         | <ul style="list-style-type: none"> <li>• Tetanus</li> <li>• Strangles</li> <li>• Rabies</li> <li>• Anthrax</li> <li>• Dermatophilosis</li> </ul>                                        |
| 14. Vector control methods may include but not limited to;                  | <ul style="list-style-type: none"> <li>• Insecticides</li> <li>• Larvicides</li> <li>• Rodenticides</li> <li>• Lethal ovitraps</li> <li>• Repellents</li> </ul>                         |
| 15. Carcass disposal methods may include but not limited to;                | <ul style="list-style-type: none"> <li>• Burial</li> <li>• Landfill</li> </ul>                                                                                                          |

| <b>VARIABLE</b>                                                                          | <b>RANGE</b>                                                                                                                                                                                     |
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|                                                                                          | <ul style="list-style-type: none"> <li>• Incineration</li> <li>• Rendering</li> <li>• Compositing</li> <li>• Chemical digestion</li> </ul>                                                       |
| 16. Parasites may include but not limited to;                                            | <ul style="list-style-type: none"> <li>• Lice</li> <li>• Tape worms</li> <li>• Warble flies</li> <li>• Cattle tick</li> <li>• Liver fluke</li> <li>• Itch mite</li> <li>• Coccidiosis</li> </ul> |
| 17. External parasite control methods may include but not limited to;                    | <ul style="list-style-type: none"> <li>• Plunge dip</li> <li>• Spray race</li> </ul>                                                                                                             |
| 18. Milking materials and equipment may include but not limited to;                      | <ul style="list-style-type: none"> <li>• Milking bucket</li> <li>• Milk strainer</li> <li>• Milk churn</li> <li>• Milk weighing scale</li> <li>• Milking salve</li> <li>• Strip cup</li> </ul>   |
| 19. Milking techniques may include but not limited to;                                   | <ul style="list-style-type: none"> <li>• Stripping method</li> <li>• Full hand method</li> <li>• Knuckling method</li> <li>• Machine milking</li> </ul>                                          |
| 20. Materials and equipment for slaughter may include but not limited to;                | <ul style="list-style-type: none"> <li>• Stunning gun</li> <li>• Meat saw</li> <li>• 6-inch skinning knife</li> <li>• Beef spreader</li> </ul>                                                   |
| 21. Camel, donkey and horse routine management practices may include but not limited to; | <ul style="list-style-type: none"> <li>• Housing</li> <li>• Feeding</li> <li>• Hoof care</li> <li>• Dental care</li> </ul>                                                                       |

| <b>VARIABLE</b>                                                      | <b>RANGE</b>                                                                                                                                      |
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|                                                                      | <ul style="list-style-type: none"> <li>• Handling and Training</li> <li>• Record keeping</li> <li>• Deworming</li> </ul>                          |
| 22. Foaling and foal care management may include but not limited to; | <ul style="list-style-type: none"> <li>• Preparing foaling stall</li> <li>• Close monitoring of the mare</li> <li>• New born foal care</li> </ul> |

## **REQUIRED KNOWLEDGE AND SKILLS**

### **Required knowledge:**

- Principles of animal production
- Donkey/camel/horse breeding and selection
- Donkey/camel/ horse nutrition
- Parasite and disease management on camels, horses and donkeys
- Marketing of camels/donkeys/horses
- Camel/donkey/horse production records
- Camel/donkey/horse handling

### **Required skills:**

- Communication
- Analytical
- Evaluation
- Management
- Problem solving
- Time management
- Data collection
- Numeracy
- Observation
- Negotiation
- Digital literacy
- Equipment calibration

## 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.      | <p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Performed camel, donkey and horse breeding based on GAPs</li> <li>1.2 Constructed camel, donkey and horse production structures based on resources available</li> <li>1.3 Performed camel, donkey and horse identification based on GAPs</li> <li>1.4 Managed camel, donkey and horse parasites and diseases GAPs</li> <li>1.5 Carried out camel hand and machine milking based on GAPs</li> <li>1.6 Marketed camels and donkeys based on market demand</li> <li>1.7 Prepared camel, donkey and horse production records based on organization record management guidelines</li> </ul> |
| 2. Resource Implications.               | <p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Access to relevant workplace where assessment can take place</li> <li>2.2 Appropriately simulated environment where assessment can take place</li> <li>2.3 Materials relevant to the proposed assessment activity or tasks</li> </ul>                                                                                                                                                                                                                                                                                                                                                       |
| 3. Methods of Assessment.               | <p>Competency may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Practical</li> <li>3.2 Project</li> <li>3.3 Portfolio of evidence</li> <li>3.4 Third Party Report</li> <li>3.5 Written Tests</li> <li>3.6 Oral Questioning</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. Context of Assessment.               | <p>This competency may be assessed in a work place or in assimilated work place</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5. Guidance information for assessment. | <p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |