

MANAGE EMERGING LIVESTOCK AND COMPANION ANIMALS

UNIT CODE: 0811 551 26A

TVET CDACC UNIT CODE: AGR/OS/AP/CR/02/6/MA

UNIT DESCRIPTION

This unit specifies competencies required to manage emerging livestock. It involves rearing of ostrich, rearing of quail, rearing of guinea fowls, farming of crocodile, and management of companion animals.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
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>Bold and italicized terms are elaborated in the Range.</i>
1. Carry out rearing of ostrich	1.1 Planning for ostrich farming is conducted as per the LPM 1.2 Facilities and equipment for rearing ostrich are prepared as per LPM 1.3 Breeding management is carried out according to LPM 1.4 Hatching and Chick care is performed as per LPM 1.5 Routine management practices are carried out as per LPM 1.6 Ostrich and products are marketed as per LPM 1.7 Bio-security practices are carried out in accordance to HCM 1.8 Waste is managed as per the environmental protection regulations 1.9 Records are maintained as per workplace policies
2. Carry out rearing of quail	2.1 Planning for quail farming is conducted as per the LPM 2.2 Facilities and equipment for rearing quail are prepared as per LPM 2.3 Breeding management is carried out according to LPM 2.4 Hatching and Chick care is performed as per LPM 2.5 Routine management practices are carried out as per LPM 2.6 Quail and products are marketed as per LPM 2.7 Bio-security practices are carried out in accordance to HCM

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	<p>2.8 Waste is managed as the environmental protection regulations</p> <p>2.9 Records are maintained as per workplace requirements</p>
3. Carry out rearing of guinea fowls	<p>3.1 Planning for guinea fowl farming is conducted as per the LPM</p> <p>3.2 Facilities and equipment for rearing guinea fowl are prepared as per LPM</p> <p>3.3 <i>Breeding management</i> is carried out according to LPM</p> <p>3.4 Hatching and Chick care is performed as per LPM</p> <p>3.5 Routine management practices are carried out as per LPM</p> <p>3.6 Guinea fowls and products are marketed as per LPM</p> <p>3.7 Bio-security practices are carried out in accordance to HCM</p> <p>3.8 Waste is managed as the environmental protection regulations</p> <p>3.9 Records are maintained as per workplace requirements</p>
4. Carry out rearing of crocodile	<p>4.1 Planning for crocodile farming is conducted as per the LPM</p> <p>4.2 Facilities and equipment for farming crocodile are prepared as per LPM</p> <p>4.3 <i>Breeding management</i> is carried out according to LPM</p> <p>4.4 <i>Hatchling care</i> is performed as per LPM</p> <p>4.5 Routine management practices are carried out as per LPM</p> <p>4.6 Crocodiles are bred using <i>breeding methods and technologies</i> as per Conservation and Management Act</p> <p>4.7 Crocodile and products are marketed according to Conservation and Management Act</p> <p>4.8 <i>Bio-security practices</i> are carried out in accordance to Conservation and Management Act</p> <p>4.9 Waste is managed as the environmental protection regulations</p> <p>4.10 Records are maintained as per workplace requirements</p>
5. Carry out management of companion	<p>5.1 Nutrient requirements of dogs and cats are determined according to feed requirement standards.</p> <p>5.2 Dog and cat feed are selected based on nutritional requirements</p>

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animals	<p>5.3 <i>Feeding regime / schedule</i> for dogs and cats is established base on LPM</p> <p>5.4 <i>Breeding management</i> of male and female dogs and cats is performed as per Directorate of Veterinary Services guidelines.</p> <p>5.5 <i>Management of pregnant</i> dogs and cats is performed as per Animal Welfare Act</p> <p>5.6 Parturition preparation is carried out as per LPM</p> <p>5.7 <i>Management of puppies and kittens</i> are carried out as per KSPCA regulations</p> <p>5.8 Dogs and cats are housed as per Animal Welfare Act</p> <p>5.9 Routine management practices in dogs and cats husbandry are carried out as per LPM.</p> <p>5.10 Records used in the management of dogs and cats are maintained as per LPM</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.

VARIABLE	RANGE
1. Planning may include but not limited to;	<ul style="list-style-type: none"> • Research on; <ul style="list-style-type: none"> ○ Market, ○ Legal requirements, ○ Welfare requirements, ○ Potential challenges ○ Financial considerations before starting • Business plan development

VARIABLE	RANGE
	<ul style="list-style-type: none"> • Acquiring permits and licences • Species selection
2. Facilities and equipment for ostrich, quail and guinea fowl rearing may include but not limited to;	<ul style="list-style-type: none"> • Land • Shelter • Fencing • Feeding and watering systems • Handling facilities
3. Facilities and equipment for crocodile farming may include but not limited to;	<ul style="list-style-type: none"> • Land • Secure enclosures with deep pools for swimming, basking areas, and nesting sites. • High and sturdy walls to prevent escape. • Holding pens for capturing, handling, and veterinary procedures • Hygiene and waste management (maintaining clean water in pools, regular waste removal, and proper carcass disposal)
4. Breeding management in ostrich, guinea fowl and quail may include but not limited to;	<ul style="list-style-type: none"> • Breeding stock selection • Breeding ratio • Egg collection • Egg incubation • Brooding
5. Breeding management in crocodiles may include but not limited to;	<ul style="list-style-type: none"> • Feeding • Grading and segregation • Monitoring progress • Health care provision • Breeding stock selection
6. Hatchling care in crocodiles may include but not limited to;	<ul style="list-style-type: none"> • Egg collection • Incubation • Started diet

VARIABLE	RANGE
	<ul style="list-style-type: none"> • Vaccination • Parasite control
7. Breeding management in dogs and cats may include but not limited to;	<ul style="list-style-type: none"> • Animal selection • Health checks • Breeding age • Heat cycles (females) • Stud selection • Mating methods (natural/artificial insemination) • Pregnancy and whelping/kittening
8. Management of pregnant dogs and cats may include but not limited to;	<ul style="list-style-type: none"> • Prenatal care • Whelping/kittening box preparation • Delivery monitoring • Postnatal care
9. Management of puppies and kittens may include but not limited to;	<ul style="list-style-type: none"> • Monitoring weight gain, • Keeping them warm and clean, • Stimulating elimination in young pups/kittens • Vaccination • Deworming • Early socialization
10. Breeding methods and technologies may include but not limited to;	<ul style="list-style-type: none"> • Breeding methods (natural breeding or hormone induced)
11. Bio-security practices may include but not limited to;	<ul style="list-style-type: none"> • Fencing • Vaccination • Movement control • Depopulation
12. Feeding regime / schedule for dogs and cats may include but not limited to;	<ul style="list-style-type: none"> • Feeding based on age – puppies/kittens, adult dogs/cats, senior dogs/ cats • Feeding based on breeds – giant breeds, active breeds

VARIABLE	RANGE
	<ul style="list-style-type: none"> • Feeding based on health status – weight management, medical conditions • Feeding based on type of food – dry, wet, raw food diets • Feeding schedule consistency • Fresh water availability
13. Routine management practices for ostrich, guinea fowl and quail may include but not limited to;	<ul style="list-style-type: none"> • Housing • Internal parasite control • External parasite control • Mineral supplementation
14. Routine management practices for crocodile may include but not limited to;	<ul style="list-style-type: none"> • Enclosure management • Water quality monitoring • Temperature monitoring • Feeding management • Regular health monitoring • Biosecurity measures • Animal welfare checks – space, enrichment activities, handling • Record keeping • Waste management • Human safety controls
15. Routine management practices for dogs and cats may include but not limited to;	<ul style="list-style-type: none"> • Feeding • Elimination (potty breaks) • Exercise • Shelter • Preventive care • Grooming • Dental care

REQUIRED KNOWLEDGE AND SKILLS

Required knowledge:

- Principles of animal production
- Ostrich/guinea fowl/quail breeding and selection
- Crocodile breeding
- Ostrich/guinea fowl/quail nutrition
- Crocodile nutrition
- Parasite and disease management on ostrich/guinea fowl/quail/ crocodile
- Marketing of camels/donkeys/horses
- Ostrich/guinea fowl/quail/ crocodile production records
- Ostrich/guinea fowl/quail/ crocodile 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.	Assessment requires evidence that the candidate: 1.1 Prepared facilities and equipment for rearing/farming emerging livestock as per LPM
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	<p>1.2 Hatched eggs of emerging livestock according to the LPM</p> <p>1.3 Managed young ones of emerging livestock as per the LPM</p> <p>1.4 Carried out routine management practices as per LPM</p> <p>1.5 Carried out bio-security practices in accordance to HCM</p> <p>1.6 Established feeding regime / schedule for emerging livestock and companion animals based on LPM</p> <p>1.7 Prepared for parturition in companion animals as per LPM</p> <p>1.8 Housed dogs and cats as per Animal Welfare Act</p> <p>1.9 Managed wastes as per the environmental protection regulations</p> <p>1.10 Maintained records as per workplace policies</p>
2. Resource Implications.	<p>The following resources should be provided:</p> <p>2.1 Access to relevant workplace where assessment can take place</p> <p>2.2 Appropriately simulated environment where assessment can take place</p> <p>2.3 Materials relevant to the proposed assessment activity or tasks</p>
3. Methods of Assessment.	<p>Competency may be assessed through:</p> <p>3.1 Practical</p> <p>3.2 Project</p> <p>3.3 Portfolio of evidence</p> <p>3.4 Third Party Report</p> <p>3.5 Written Tests</p> <p>3.6 Oral Questioning</p>
4. Context of Assessment.	<p>Competency may be assessed in a:</p> <p>4.1 Workplace</p> <p>4.2 Simulated workplace</p>
5. Guidance information for assessment.	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.