

MAINTAIN LIVESTOCK HEALTH

ISCED UNIT CODE: 0811 351 06B

UNIT CODE: AGR/OS/EXT/CR/04/4/B

UNIT DESCRIPTION

This unit specifies the competencies required to maintain livestock health. It involves prepare to maintain livestock health, maintain livestock house structures, housing the livestock, carrying out routine management practices, controlling livestock disease and parasites, managing health condition and maintaining of livestock health

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function (to be stated in active voice)	These are assessable statements which specify the required level of performance for each of the elements (to be stated in passive voice) <i>Bold and italicized terms are elaborated in the Range</i>
1. Prepare to maintain livestock health	1.1 Personal protective equipment is worn as per occupation health and safety standard as well as the job requirements. 1.2 Appropriate livestock housing structures are identified according to species , type and class of the livestock and Livestock housing design 1.3 Structure maintenance materials are identified and gathered according to livestock housing plan and job requirement. 1.4 Structure maintenance Tools, equipment and machines are identified and gathered according to the job requirement. 1.5 Routine management practices are identified based on LPM, livestock species and class. 1.6 Diseases and parasites are identified according to the type of livestock 1.7 Health Conditions are identified according to effects on production and workplace procedures. 1.8 Parasite control method is adopted based on the type of parasite and level of infestation. 1.9 Method of disease control is identified and adopted depending on the disease

	<p>1.10 Parasite control</p> <p>Materials/tools/equipment are identified and gathered according to the mode of control</p>
2. Maintain livestock house structures	<p>2.1 Areas requiring maintenance are identified based on the need and condition of the structure</p> <p>2.2 Structures are maintained according to the need for repairs and maintenance</p> <p>2.3 Fittings are maintained based on the damages caused to them</p>
3. House the livestock	<p>3.1 Farm animals are housed based on the livestock production manual (LPM)</p> <p>3.2 The structure capacity is adhered to according to animal species, LPM and livestock welfare regulations.</p> <p>3.3 Livestock structures are cleaned as per the LPM</p>
4. Carry out routine management practices	<p>4.1 Routine management practices are performed based on animal type & category and LPM</p> <p>4.2 Tools and equipment used are cleaned and stored as per manufacturer's instructions and workplace policy</p>
5. Control livestock diseases	<p>5.1 Sick animals are identified and isolated based on the workplace policy</p> <p>5.2 A template on the livestock health is filled according to workplace policy and LMP</p> <p>5.3 A qualified Veterinary officer is engaged to diagnose the diseases and treat the animal accurately according to the symptoms</p> <p>5.4 Notifiable diseases are reported to the authorities concerned based on LPM</p> <p>5.5 Close monitoring of the livestock on treatment is carried out according to veterinary officers' advice</p>
6. Control livestock parasites	<p>6.1 Parasite identification is done according to the livestock production manuals</p> <p>6.2 Appropriate parasite management method is followed based on the parasite identified</p>
7. Manage health conditions in Livestock	<p>7.1 Livestock with health condition are identified as per LPM</p> <p>7.2 Livestock health condition template is filled as per LPM</p>

	<p>7.3 Report the identified case of livestock health condition according to workplace policy.</p> <p>7.4 Instruction on management of the adverse health conditions are followed according to workplace policy</p>
8. Complete the maintenance of livestock health	<p>8.1 Animal droppings are collected and converted into farmyard manure according to work place policy.</p> <p>8.2 Reusable equipment and tools are cleaned, sterilized and stored according to the workplace policy</p> <p>8.3 Waste and non-recyclable materials are collected and sorted according to the workplace policy</p> <p>8.4 Livestock health maintenance activities are recorded according to the farm routine practices.</p> <p>8.5 Unused materials are stored according to manufacturer's instructions.</p>

RANGE

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
Livestock housing designs May include but are not limited to :	<p>Types of animal house</p> <ul style="list-style-type: none"> • Bee hives • Crushes • Rabbit pens • Fences • Goat/ sheep sheds • Outside pens • Poultry house/ cages • Zero grazing unit • Structural plan layout of animal structures

Structure maintenance materials May include but are not limited to :	<ul style="list-style-type: none"> • Roofing materials • Bricks • Timber • Blocks • Nails • Cement • Sand • Water • Wires
Structure maintenance Tools, equipment and machines May include but are not limited to :	<ul style="list-style-type: none"> • Wooden pegs • Measuring tape • Hammer • Sisal twine • Masonry tools • Carpentry tools • Plumbing tools • Hoe • Jembe • Panga • Slashers • Rakes • Wheel barrow
Livestock house structures May include but are not limited to :	<ul style="list-style-type: none"> • Bee hives • Crushes • Dogs kennels • Rabbit pens • Fences • Goat/ sheep sheds • Outside pens • Poultry house/ cages • Zero grazing unit

Species of the livestock May include but are not limited to :	<ul style="list-style-type: none"> • Pigs • Cattle • Bees • Sheep • Fish • Dogs and pets • Emerging livestock • Equines • Goats
Class of livestock May include but are not limited to :	<ul style="list-style-type: none"> • Young • Old • Gestating • Lactating • Laying • Brooding
Personal protective equipment May include but are not limited to :	<ul style="list-style-type: none"> • Gumboots • Overall • Gloves • Breathing mask • Goggles • Cap
Routine management practices May include but are not limited to :	<ul style="list-style-type: none"> • Shearing • De-beaking • Foot path replenishment • Cleaning of feeding and watering troughs • Turning of litter • Changing beddings • Cleaning sheds/ houses • Disinfecting livestock houses and brooders • Dung removal from the livestock houses • Livestock weighing for growth monitoring • Parasite control practices • Grooming • Hair clipping

Diseases May include but are not limited to :	<ul style="list-style-type: none"> • Viral • Fungal • Bacterial • Protozoan • Microplasmal
Health conditions May include but are not limited to :	<ul style="list-style-type: none"> • Fractures • Snake and spider bites • Bee stings • Dog bites • Poisoning • External Soft tissue injuries • Metabolic disorders
Parasites May include but are not limited to :	<ul style="list-style-type: none"> • External: <ul style="list-style-type: none"> • Flea • Lice • Manges • Mite • Tick • Tsetse fly • Flies • Internal: <ul style="list-style-type: none"> • Fluke worms • Round worm • Tape worm

Parasite control method May include but are not limited to :	<ul style="list-style-type: none"> • Internal parasite control: • Deworming • Rotational grazing • Observing feed and fodder hygiene • Observing field hygiene • External parasite control • Spraying • Vaccination • Dusting • Hair trimming • Pasture field hygiene • Proper house conditions • Dipping • Grooming
Method of disease control May include but are not limited to :	<ul style="list-style-type: none"> • Intramuscular injections by a qualified veterinary officer • Pasture field hygiene • Eradicating vectors and predisposing factors • Spraying • Proper and timely vaccination • Livestock movement control • Sanitation and hygiene
Parasite control materials, tools and equipment May include but are not limited to :	<ul style="list-style-type: none"> • Bolus gun • Sprayer • Water • Slashers • Rakes, • Wheel barrow • Shovels • Buckets • Measuring cylinders • Livestock restrainers • Foot baths • Sanitizations agents • Acaricides • Dewormers

Notifiable diseases May include but are not limited to:	<ul style="list-style-type: none"> • Foot and mouth • Anthrax • Swine fever
Livestock production manual- LPM May include but are not limited to :	<ul style="list-style-type: none"> • Feeding • Vaccination • Routine management practices: <ul style="list-style-type: none"> • Castration • De-beaking • Dehorning • Identification • Teat clipping
Environment management regulations May include but are not limited to :	<ul style="list-style-type: none"> • Environmental Management and Coordination Act – EMCA • National environmental management authority regulations • OHS

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:

- Animal handling
- Communication
- Observation
- Recording
- Measurement
- Basic numeracy
- Tools and equipment handling
- Observation
- Perceptual (auditory, visual, smell, tactile)

Required Knowledge

The individual needs to demonstrate knowledge of:

- Animal behaviour
- Types of tools and equipment required in livestock house structures construction
- Materials for constructing livestock house structures
- Livestock production systems
- Livestock house structures

- Livestock health conditions
- Livestock parasites
- Animal physiology
- Disease and parasite control methods
- Livestock Welfare
- Environmental health and safety
- Livestock Hygiene
- Occupational safety and health
- Waste management

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	<ul style="list-style-type: none"> 1.1 Assessment requires evidence that the candidate: 1.2 Gathered structure maintenance materials, tools and equipment correctly 1.3 Used materials and resources efficiently 1.4 Maintained livestock structures appropriately 1.5 Implemented vaccination and parasite control programmes accordingly 1.6 Observed laid down environmental workplace policy keenly 1.7 Observed safety measures keenly 1.8 Applied appropriate disease and parasite control methods correctly 1.9 Followed instructions on management of adverse health conditions of the livestock keenly 1.10 Stored unused materials, cleaned tools and equipment correctly 1.11 filled the livestock health care templates well 1.12 Evaluated health care effectiveness 1.13 Observed livestock welfare practices well
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2. Resource Implications for competence certification	<p>The following resources must be provided:</p> <ul style="list-style-type: none"> 2.1 activity or tasks Access to relevant workplace where assessment can take place 2.2 Appropriately simulated environment where assessment can take place 2.3 Materials relevant to the proposed
3. Methods of Assessment	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Observation 3.2 Oral interview 3.3 Written exam 3.4 Third party report
4. Context of Assessment	<p>Competency may be assessed on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>