MAINTAIN LIVESTOCK HEALTH

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

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, and waste management and documentation.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMEN IS AND FERFORMANC	-
ELEMENT These describe the key outcomes	PERFORMANCE CRITERIA
	These are assessable statements which specify the
which make up workplace function	required level of performance for each of the elements
1	(to be stated in passive voice)
(to be stated in active voice)	Bold and italicized terms are elaborated in the Range
1. Prepare to maintain livestock	1.1 Personal protective equipment is worn as per
health	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
Ø	<i>livestock</i> 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 <i>Diseases and parasites</i> are identified according to
	the type of livestock
	1.7 <i>Health Conditions</i> are identified according to
	effects on production and workplace procedures.

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

7. Manage health conditions	7.1 Livestock with health condition are identified as per
	LPM
	7.2 Livestock health condition template is filled as per
	LPM
	7.3 Report the identified case of livestock health
	condition according to workplace policy.
	7.4 Instruction on management of the adverse health
	conditions are followed according to workplace
	policy
8. Complete the maintenance of	8.1 Animal droppings are collected and converted into
livestock health	farmyard manure according to work place policy.
	8.2 Reusable equipment and tools are cleaned,
	sterilized and stored according to the workplace
	policy
	8.3 Waste and non-recyclable materials are collected
	and sorted according to the workplace policy
	8.4 Livestock health maintenance activities are
	recorded according to the farm routine practices.
	8.5 Unused materials are stored according to
	manufacturer's instructions.

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 (May include but are not limited to :)
Livestock housing designs	Types of animal house
	- 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	 Roofing materials
materials	 Bricks
	• Timber
	 Blocks
	 Nails
	• Cement
	 Sand
	• Water
	• Wires
Structure maintenance Tools,	Wooden pegs
equipment and machines	 Measuring tape
	Hammer
	Sisal twine
	 Masonry tools
	 Carpentry tools
	 Plumbing tools
	• Hoe
	• Jembe
	 Panga
	• Slashers
	• Rakes
	Wheel barrow
Livestock house structures	Bee hives
	• Crushes
	 Dogs kennels
	 Rabbit pens
	• Fences
	 Goat/ sheep sheds
	 Outside pens
	 Poultry house/ cages
	 Zero grazing unit

Species of the livestock	• Pigs
	• Cattle
	• Bees
	• Sheep
	• Fish
	 Dogs and pets
	Emerging livestock
	• Equines
	Goats
Class of livestock	Young
	• Old
	Gestating
	• Lactating
	• Laying
	Brooding
Personal protective equipment	Gumboots
Tersonal protective equipment	• Overall
	• Gloves
	Breathing mask
	Goggles
	• Cap
Routine management practices	Shearing
redutine management practices	De-beaking
	Foot path replenishment
	 Cleaning of feeding and watering troughs
	 Turning of litter
	Changing beddings
	Changing beddingsCleaning sheds/ houses
	 Disinfecting livestock houses and brooders
	 Dung removal from the livestock houses
	 Livestock weighing for growth monitoring
	 Parasite control practices
	 Grooming
	Hair clipping
	Tran Cupping

Diseases	Viral
	• Fungal
	Bacterial
	 Protozoan
	Microplasmal
Health conditions	Fractures
	 Snake and spider bites
	Bee stings
	Dog bites
	 Poisoning
	External Soft tissue injuries
	Metabolic disorders
Parasites	External:
	- Flea
	- Lice
	- Manges
	- Mite
	- Tick
	- Tsetse fly
	- Flies
	• Internal:
	- Fluke worms
	- Round worm
	- Tape worm

Parasite control method	 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	 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,	Bolus gun
tools and equipment	• Sprayer
1 1	• Water
	• Slashers
	• Rakes,
	Wheel barrow
	• Shovels
	Buckets
	Measuring cylinders
	Livestock restrainers
	Foot baths
	Sanitizations agents
	Acaricides
	• Dewormers

Notifiable diseases	Foot and mouth
	Anthrax
	• Swine fever
Livestock production manual-	Feeding
LPM	 Vaccination
	 Routine management practices:
	- Castration
	- De-beaking
	- Dehorning
	- Identification
	- Teat clipping
Environment management	 Environmental Management and Coordination Act –
regulations	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	1.1	Assessment requires evidence that the candidate:
1.			
	Aspects of	1.2	Gathered structure maintenance materials, tools and equipment
	Competency		correctly
	r r	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

2.	Resource	The following resources must be provided:
	Implications	2.1 Assessment location- functional farm with various livestock species,
		livestock structures, Basic construction tools and equipment, Tools,
		equipment and materials for pest control
		2.2 Farm plan
		2.3 Parasite control plans
		2.4 Environmental management policy
		2.5 Personal protective equipment
3.	Methods of	Competency in this unit may be assessed through:
	Assessment	3.1 Observation
		3.2 Oral interview
		3.3 Written exam
		3.4 Third party report
4.	Context of	Competency may be assessed on the job, off the job or a combination of
	Assessment	these. Off the job assessment must be undertaken in a closely simulated
		workplace environment.
5.	Guidance	Holistic assessment with other units relevant to the industry sector,
	information	workplace and job role is recommended.
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	assessment	.0.