THE NATIONAL COUNCIL FOR TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING



OCCUPATIONAL STANDARDS

OCCUPATION: LIVESTOCK VETERINARY TECHNICIAN

LEVEL: NTA LEVEL 6

FEBRUARY 2024

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ABBREVIATIONS

AB Antibody

AG Antigen

CBC Blood Routine Test

CBET Competency Based Education and Training

FP Fowl Pox

HA Hemagglutination Assay

HI Hemagglutination Inhibition Test

HPAI High Pathogenic AI

IAP Immunization Plan

IG Immunoglobulin

IM Intramuscular Injection

IV Intravenous Injection

NACTVET National Council for Technical and Vocational Education and Training

NOS National Occupational Standards

OS Occupational Standards

RBC Red Blood Cell Count

RV Rotavirus

TET Technical Education and Training

TVET Technical and Vocational Education and Training

WBC White Blood Cell

GLOSSARY OF TERMS

Circumstantial Detailed knowledge, which allows the decision-making in regard to

Knowledge: different circumstances and cross cutting issues.

Competence: The ability to use knowledge, understanding, practical, and thinking

skills to perform effectively to the workplace standards required in

employment.

Competency: A description of the ability one possesses when able to perform a given

occupational task effectively and efficiently.

Competency-based An instructional programme that derives its content from validated

Education: tasks and bases assessment on the learner's performance.

Curriculum: A description or composite of statements about "what is to be learned"

by the trainee/student in a particular instructional programme; a product

that states the "intended learning outcomes".

Educational/Training

Programme:

The complete curriculum and instruction (what and how) that is designed to prepare a person for employment in a job or other particular

performance situation.

Occupation: A specific position requiring the performance of specific tasks -

essentially the same tasks are performed by all employees having the

same title. (Example: baker)

Occupational Area: This is a broad grouping of related jobs. (Example: food service)

Occupational Specific requirements of competences for personnel in a particular

Standards: occupational area, including knowledge and relevant attitudes. They

also act as performance tools of assessment of the prescribed outcomes.

Occupational/Job

Analysis:

A process used to identify the tasks that are important to employees in

any given occupation.

Performance Criteria: Indicate expected end results or outcomes in the form of evaluative

statements.

Skills:

The ability to perform occupational tasks with a high degree of proficiency within a given occupation. Skill is conceived of as a composite of three completely interdependent components: cognitive, affective, and psychomotor.

Standards:

A set of statements, which, if proved true under working conditions, means that an individual is meeting an expected level and type of performance.

Task Analysis:

The process of analysing each task to determine the steps, circumstantial knowledge, attitudes, performance criteria, tools and materials needed, as well as safety concerns required for the employees performing it.

Task:

A work activity that has a definite beginning and ending, is observable or measurable, consists of two or more definite steps, and leads to products, service, or decisions.

Underpinning Knowledge:

Crucial knowledge that an individual must acquire in order to demonstrate competences that are associated in performing a given task.

Verification Process:

The process of having experts review and confirm the importance of the task (competency) statements identified through occupational analysis. Other questions, such as the degree of task learning difficulty are also frequently asked. This process is also sometimes referred to as validation.

Occupational Competence:

The application of knowledge and skills that consistently meet the standards required by the working conditions.

1.0. INTRODUCTION

Technical Education and Training (TET) is one of the most important education sub-sectors in Tanzania, responsible for developing a skilled workforce to support the country's industrialization economic agenda. Tanzania's *Development Vision 2025* intends to raise the country's economy to a middle-income status, with a high level of human development. This requires a skilled workforce that is aligned with the needs of the public and private sectors of the economy. The National Council for Technical and Vocational Education and Training (NACTVET) has begun the job of drafting Occupational Standards (OS) that will eventually be adopted as National Occupational Standards (NOS) for use in the delivery of TET that meets the needs of the labour market and the country's economic agenda.

Occupational Standards (OS) are performance criteria that are matched with labour market demands. Each of them describes the functions, performance standards, and understanding or knowledge underpinning a given occupation. They combine skills, knowledge, and attitudes to describe best practice. They are useful tools for establishing job roles, personnel recruitment, supervision, and appraisal, as well as TET Standards. They are also helpful for benchmarking and harmonizing job qualifications on a national and international level. Standards, in general, provide a solid framework for high-quality TET that is labour market-relevant, current, and consistent in application across all public and private institutions.

However, it must be noted that Occupational Standards are different from Training /Education Standards. Occupational standards are defined in terms of activities performed by a person in a selected occupation (e.g., an electrical engineer designs electrical circuits, performs troubleshooting in electrical circuits, etc.), and are usually defined by Employers following procedures as agreed upon by all the stakeholders. On the other hand, Training and Education Standards are developed from the activities defined in the occupational standards, and they specify learning objectives to ensure that the necessary skills and knowledge are developed by a person to enable him/her to function at an agreed level in an occupation. Training and Education Standards are used to define curricula in training institutions. It is critical, however, to establish a direct link between the occupational standards and the training standards for both of them to respond collaboratively to the demands of the labour market.

For the purpose of TET delivery, Tanzania has adopted the Competence Based Education and Training (CBET) approach. The CBET approach focuses on providing learners with the skills and knowledge required to meet the occupational standards. Occupational standards are thus the starting point for developing competency-based training (CBET) programmes. Therefore, it is quite pertinent for TET institutions to use the relevant occupational standards as a benchmark for formulating their curricula.

Occupational Standards are developed based on a given occupation's current and future demands. As a result, they serve as a means of bridging the gap between the worlds of employment and technical education and training.

The document explains how the occupational standards were developed, as well as the scope, the occupational profile in the form of DACUM charts, and the Occupational Standards.

2.0. OCCUPATIONAL STANDARD DEVELOPMENT PROCESS

The process of developing these Occupational Standards involved both local and international expertise. The process began with an examination of major documents that guide Tanzanian skills development including the 10-year National Skills Development Strategy (2016-2026). NACTVET labour market reports were also used in the literature review to determine the skills demand in the Tanzanian labour market as a whole.

After the literature review, a team of experts in consultation with practitioners developed draft occupational standards. The draft document was used to develop an occupational profile for each occupation (DACUM Chart), which is attached as an **Appendix** to every Occupational Standard.

The occupational standards were validated during the stakeholders' forum held on 22nd and 23rd February 2024 at Morogoro. The information from the stakeholders' forum provides insight from the workplace, professional bodies, regulatory bodies and sector ministries regarding trends and changes in the profession, including how well graduates are prepared for working in the occupation.

3.0. THE SCOPE AND OVERVIEW OF THE OCCUPATION STANDARDS FOR LIVESTOCK VETERINARY TECHNICIANS

The standards cover a broad range of duties and tasks that can be performed by a Livestock Veterinary Technician However, the occupational standards are not meant to replace individual job descriptions. Instead, they are to be used for guidance in defining skill levels and knowledge for the technician in specific settings or positions. The Livestock Veterinary Technician may perform tasks in a number of key areas of the Occupational Standards, but not necessarily in all areas. For example, in large operations, other individuals may be employed or designated to perform specific tasks.

Livestock Veterinary Technicians are responsible for basic operational techniques, including the anatomy, breeding, feed processing, breeding management, vaccination, pharmacology pathology and disease prevention and control of the livestock and poultry (pigs, chickens, cows, horses, rabbits, dogs and cats) and they work under the supervision of Livestock Veterinary Engineers. Generally, the Livestock Veterinary Technician performs the following duties:

- a) Restraint of animal
- b) Sterilization operations
- c) Preparation of experimental materials;
- d) Basic clinical examination
- e) Biosafety protection
- f) Appearance identification and health evaluation
- g) Immunization and immunization effect monitoring
- h) Collection and delivery of blood samples
- i) Use of common instruments
- j) Storage of drugs and reagents, and drug compatibility and administration technique
- k) Inspection and handling of animals and animal products
- 1) Feed processing and formula design

- m) Estrus identification and artificial insemination technique
- n) Collection and delivery of pathological tissue samples
- o) Examination of parasites
- p) Clinical tests
- q) Necropsy
- r) Inspection and handling after slaughtering
- s) Feeding and management of livestock and poultry

The Occupational Standards have been clustered into NTA qualification levels, i.e. NTA 4, 5 and 6.

4.0. VALIDITY PERIOD

Due to the rapid development of technology, the validity period of occupational standards is 3-5 years. The review will proceed in the same manner as the one before it, with new occupational standards being developed based on current trends of the labour market.

5.0. OCCUPATIONAL STANDARDS

5.1 OCCUPATIONAL STANDARDS FOR LIVESTOCK VETERINARY TECHNICIAN - NTA 6

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN		OCCUPATION CODE	
DUTY TITLE	MONITOR IMMUNIZATION EFFECTS		DUTY NO.	601
TASK TITLE	CONDUCT TREATMI		TASK NO.	6011
PERFORMANCE CRITERIA	The person performing this task must be able to conduct the treatment of adverse animal immunization reactions according to the standard adverse immunization reaction treatments.			
RANGE STATEMENT	The task can be performed on livestock farm under the supervision of senior animal husbandry and veterinary engineers. The tools and equipment to be used include:			
	 Veterinary thermometer; Stethoscope; Disposable syringe; Personal protective equipment, such as masks, disposable latex gloves, 			ex gloves,
	and protective clothing;Platform scales or weighting scales;			
	EVIDENCE REQUIREMENT			
PRACTICAL PERFORMANCE UNDERPINNING KNOWLEDGE				
The person performing able to do the follows 1. Select appropria	ring:	Detailed knowledge 1.0 Methods		
	ate tools and equipment; erent types of adverse eactions;	The person performing explain how to: 1.1 Prepare response.		
3. Measure body temperature of animal;4. Identify breathing and heart sounds of animal;		• •	of adverse imn al reactions, severe ;	
5. Weigh and calculate the dosage of drugs;		1.2 Calculate the do	sage of drugs.	
6. Give muscle inj	ection;	2.0 Principle		
7. Give subcutaned	ous injection;	The person performing		able to
8. Give venipuncto	ıre;	explain the following principles:		
9. Care animals;		2.1 Reasons of adve	rse immunization re	actions;

10. Clean the tools, equipment and the workplace;	2.2 Response plans for adverse immunization reactions and its significance.
11. Store drugs, tools and equipment safely; and12. Observe health, occupational and environmental safety rules and regulations	3.0 TheoriesThe person performing this task must be able to explain the following:3.1 Instructions for selection and application of drugs.
	 4.0 Essential Skills 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills.
DESCRIPTION OF THE END PRODUCT / SERVICE	Treatments of adverse immunization reactions in animals are performed in accordance with approved technical specifications
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about: 1. Knowledge of animal immunization; 2. Animal pharmacological knowledge; 3. Biosafety; 4. Methods for disposal of medical waste.

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE	
DUTY TITLE	MONITOR IMMUNIZATION EFFECTS	DUTY NO.	601
TASK TITLE	CARRY OUT EVALUATION OF IMMUNIZATION POTENCY	TASK NO.	6012
PERFORMANCE CRITERIA	The person performing this task must be able to carry out the evaluation of animal immunization potency in accordance with standard immunization potency evaluation procedures.		
RANGE STATEMENT	The task can be performed on livester animal husbandry and veterinary enused include: 1. Veterinary hemostix; 2. Electrothermostat; 3. Benchtop low-speed centrifuge; 4. Pipette; 5. 96-hole V-type coagulation boat 6. ELIASA; 7. Tray balance; 8. Oscillator; 9. Masks and disposable latex glown. 10. Protective clothing; 11. Refrigerator.	gineers. The tools	=
	11. Kenigerator.		

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE
The person performing this task must be able	Detailed knowledge about:
to do the following:	1.0 Methods
1. Observe biosafety measures;	The person performing this task must be able to
2. Select appropriate operation tools and	explain how to:
equipment;	1.1 Select appropriate detection methods
3. Select appropriate detection methods	
according to different antibody detection	
object;	1.2 Take serum agglutination test;
4. Take blood collection from poultry wing veins;	1.3 Take haemagglutination-hemagglutination inhibition test;
5. Take blood collection from porcine anterior vena cava;	1.4 Perform the enzyme-linked immunosorbent assay;
	1.5 Take antibody result analysis.

6. Take blood collection from jugular veins	
of cattle and sheep;	2.0 Principle
7. Take blood collection from oxtail vein;	The person performing this task must be able to
8. Separate and preserve serum;	explain the following principles:
9. Test serum agglutination;	2.1 Principle of antigen-antibody specific
10. Test hemagglutination-hemagglutination	reaction;
inhibition;	2.2 Principle of agglutination test.
11. Test enzyme-linked immunosorbent;	
12. Clean the disinfection tools, equipment	3.0 Theories
and workplace;	The person performing this task must be able to
13. Store tools and equipment safely; and	explain the following:
14. Observe health, occupational and	3.1 Animal immunoassay detect method;
environmental safety rules and	3.2 Blood circulation law of animals.
regulations	
	4.0 Essential Skills
	4.0 Libertual Divins
	4.1 Instrument operation skills;
	4.1 Instrument operation skills;
	4.1 Instrument operation skills;4.2 Customer service skills;
DESCRIPTION OF THE END	4.1 Instrument operation skills;4.2 Customer service skills;4.3 Teamwork skills;4.4 Report writing skills.
DESCRIPTION OF THE END PRODUCT / SERVICE	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried
	4.1 Instrument operation skills;4.2 Customer service skills;4.3 Teamwork skills;4.4 Report writing skills.
	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried out in accordance with approved technical
PRODUCT / SERVICE	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried out in accordance with approved technical requirements.
PRODUCT / SERVICE	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried out in accordance with approved technical requirements. Detailed knowledge about:
PRODUCT / SERVICE	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried out in accordance with approved technical requirements. Detailed knowledge about: 1. Knowledge of animal immunization; 2. Animal pharmacological knowledge;
PRODUCT / SERVICE	 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The evaluation of immunization potency is carried out in accordance with approved technical requirements. Detailed knowledge about: 1. Knowledge of animal immunization; 2. Animal pharmacological knowledge;

OCCUPATION	LIVESTOCK VETER	RINARY	OCCUPATION		
	TECHNICIAN		CODE		
DUTY TITLE	MONITOR IMM	UNIZATION	DUTY NO.	601	
	EFFECTS				
TASK TITLE	PREPARE	THE	TASK NO.	6013	
	IMMUNIZATION				
	PROGRAMMES				
PERFORMANCE	The person perform	ing this task	must be able to	prepare the animal	
CRITERIA	immunization programmes in accordance with the technical immunization			nnical immunization	
	requirements.				
RANGE	The task can be perfo			•	
STATEMENT	animal husbandry and	d veterinary en	gineers. The tools a	and equipment to be	
	used include:				
	1. Desktop or laptop	p computer;			
	2. Printer.				
DD A CONTO A L DED		E REQUIRE		ACE	
PRACTICAL PER			NING KNOWLED)GE	
The person performing	•		wledge about:		
able to do the follow	=	1.0 Methods			
_	1. Investigate animal species, uses and local epidemic situation;		The person performing this task must be able to		
_		explain how to:			
2. Evaluate the maternal antibody level of animals;		1.1 Prepare in	mmunization plan.		
,	sidual antibody level				
	st immunization;	2.0 Principle			
4. Select the type of		-	erforming this task i	must he able to	
	nization method.	explain the following principles:			
		2.1 Attenuated vaccine Immunization;			
			ed vaccine immuniz	·	
		2.3 Vaccine i	mmune interference	e.	
		3.0 Theories			
		The person pe	erforming this task i llowing:	must be able to	
		-	y of immune respon	ıse.	
			-		
		5.2 Epideinio	ological investigatio	ni stanuarus.	
		4.0 Essential	l Skills		
		4.1 Instrumer	nt operation skills;		
		4.2 Customer	r service skills;		
		4.3 Teamwor			
		1041111101	.i. diliid,		

	4.4 Report writing skills.	
DESCRIPTION OF THE END	The immunization programme is prepared in	
PRODUCT / SERVICE	accordance with the standard immunization	
	procedures.	
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:	
	1. Knowledge of animal immunization;	
	2. Animal pharmacological knowledge;	
	3. Biosafety;	
	4. Methods for disposal of medical waste.	

OCCUPATION	LIVESTOCK VETER TECHNICIAN	RINARY	OCCUPATION CODE	
DUTY TITLE	PERFORM COLLECTION OF THE PARTHOLOGICAL SAMPLES	OF TISSUE	DUTY NO.	602
TASK TITLE	CARRY OUT COLLECTION PRESERVATION PATHOLOGICAL SAMPLES	THE AND OF TISSUE	TASK NO.	6021
PERFORMANCE CRITERIA	The person performing this task must be able to carry out the collection and preservation of animal pathological samples in accordance with the standard procedures for the collection and preservation of pathological tissue samples.			
RANGE STATEMENT	The task can be performed on livestock farm under the supervision of senior animal husbandry and veterinary engineers. The tools and equipment to be used include: 1. Scalpel; 2. Operating scissors; 3. Tweezer; 4. Glass bottle; 5. Alcohol burner; 6. Masks and disposable latex gloves; 7. Protective clothing; 8. Protective mask.			
	EVIDENC	E REQUIRE	MENT	
PRACTICAL PERFORMANCE UNDERPINE		NING KNOWLEI	OGE	
11 . 1 .1 .6 .11		Detailed kno 1.0 Methods	wledge about:	
 Observe biosafe Select appropria equipment; 	ty measures; te operation tools and	explain how t		
3. Select suitable for different dise	pathological samples 1.1 Dissect poultry in a pathological manner; 1.2 Dissect pigs in a pathological manner;			

2.0 Principle

manner;

5. Dissect pigs in a pathological manner;

6. Dissect ruminants in a pathological	The person performing this task must be able to
manner;	explain the following principles:
7. Prepare fixation fluid for pathological samples;	2.1 Collection and preservation principles of pathological tissue samples
8. Label, package and transport	
pathological samples;	3.0 Theories
9. Clean the tools, equipment and workplace;	The person performing this task must be able to explain the following:
10. Store tools and equipment safely.	3.1 Animal pathological anatomy methods;
	3.2 Collection methods of animal pathological tissue;
	3.3 Preservation methods of animal pathological
	tissues.
	4.0 Essential Skills
	4.1 Instrument operation skills;
	4.2 Customer service skills;
	4.3 Teamwork skills;
	4.4 Report writing skills.
DESCRIPTION OF THE END	The pathological tissue samples are collected and
PRODUCT / SERVICE	preserved in accordance with approved technical
	requirements.
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:
	1. Animal anatomical structure;
	2. Pathological changes of animal diseases;
	3. Biosafety;
	4. Methods for disposal of medical waste.

TASK TITLE TASK TITLE PERFORMANCE CRITERIA PRANGE TASK TITLE A P P R R R R R R R R R R R R R R R R	PERFORM COLLECTION AND	DUTY NO.	
PERFORMANCE TO THE PROPERTY OF	DELIVERY OF PATHOLOGICAL TISSUE SAMPLES	DUII NU.	602
CRITERIA propries	CARRY OUT COLLECTION AND PRESERVATION OF PATHOGEN ANALYSIS SAMPLES	TASK NO.	6022
	The person performing this task must preservation of pathogen analysis requirements.		
1 2 3 4 5 6 7 8	The task can be performed on livestoranimal husbandry and veterinary enused include: 1. Sterilizing scalpel; 2. Sterilizing surgical scissors; 3. Sterilized tweezers; 4. Sterilized glass bottle/capped certors. 5. Autoclave; 6. Refrigerator/freezer; 7. Alcohol burner; 8. Injector; 9. Masks and disposable latex glov. 10. Protective clothing;	gineers. The tools a	-
EVIDENCE REQUIREMENT			

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE
The person performing this task must be	Detailed knowledge about:
able to do the following:	1.0 Methods
1. Observe biosafety measures;	The person performing this task must be able to
2. Select appropriate operation tools and	explain how to:
equipment for this task;	1.1 Dissect poultry in a pathological manner;
3. Select suitable pathogen analysis	1.2 Dissect pigs in a pathological manner;
samples for different animal diseases;	1.3 Dissect ruminants in a pathological manner;
4. Dissect poultry in a pathological	1.4 Prepare anticoagulant, phosphate buffer and
manner;	Hank's solution;

Dissect pigs in a pathological manner; 1.5 Collect animal blood; 6. Dissect ruminants in a pathological 1.6 Isolate serum. manner; 7. Prepare anticoagulant, phosphate buffer 2.0 Principle and Hank's solution; The person performing this task must be able to 8. Collect animal blood: explain the following principles: 9. Isolate serum; 2.1 Principles of collection and preservation of 10. Clean the tools, equipment and the pathogen analysis samples. workplace; 11. Store reagents, tools and equipment 3.0 Theories safely. The person performing this task must be able to explain the following: 3.1 Animal pathological anatomy methods; 3.2 Collection methods of animal pathogenic analysis; 3.3 Preservation methods of animal pathogenic analysis tissues. 4.0 Essential Skills 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. The collection and preservation of pathogen **DESCRIPTION OF THE END** PRODUCT / SERVICE analysis samples is carried out in accordance with standard collection and preservation procedures. CIRCUMSTANTIAL KNOWLEDGE **Detailed knowledge about:** Animal anatomical structure Pathological changes of animal epidemic diseases; 3. Biosafety; Methods for disposal of medical waste. 4.

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE	
DUTY TITLE	PERFORM COLLECTION AND DELIVERY OF PATHOLOGICAL TISSUE SAMPLES	DUTY NO.	602
TASK TITLE	CONDUCT TRANSPORTATION OF SAMPLES	TASK NO.	6023
PERFORMANCE CRITERIA			
RANGE STATEMENT	The person performing this task must be able to transport samples is accordance with the standard safety sample storage procedures. The task can be performed on livestock farm under the supervision of senioranimal husbandry and veterinary engineers. The tools and equipment to be used include: 1. Sterilizing scalpel; 2. Sterilizing surgical scissors; 3. Sterilized tweezers; 4. Sterilized glass bottle/capped centrifuge tube/plate; 5. Autoclave; 6. Paraffin wax; 7. Sealing film; 8. Biological ice pack; 9. Dried ice; 10. Marking pen; 11. Label paper; 12. Masks and disposable latex gloves; 13. Protective clothing;		

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE	
The person performing this task must be	Detailed knowledge about:	
able to do the following:	1.0 Methods	
1. Observe biosafety measures;	The person performing this task must be able to	
2. Select appropriate operation tools and	explain how to:	
equipment;	1.1 Tag sample;	
3. Select different packing ways for	1.2 Pack sample;	
different samples	1.3 Deliver sample.	

4. Select different delivering ways for	2.0 Principle
different samples	The person performing this task must be able to
5. Clean the disinfection tools, equipment	explain the following principles:
and workplace;	2.1 Necessity of tagging samples;
6. Store tools and equipment safely.	2.2 Necessity of delivering samples correctly.
	3.0 Theories
	The person performing this task must be able to explain the following:
	3.1 Biosafety methods for sample packaging and transportation.
	4.0 Essential Skills
	4.1 Instrument operation skills;
	4.2 Customer service skills;
	4.3 Teamwork skills;
	4.4 Report writing skills.
DESCRIPTION OF THE END	Transportation of samples is conducted in
PRODUCT / SERVICE	accordance with the approved standards and
	regulations.
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:
	1. Knowledge of histopathological fixation;
	2. Preservation of pathogen analysis samples;
	3. Biosafety;
	4. Methods for disposal of medical waste.

OCCUPATION	LIVESTOCK VETERI	NADV	OCCUPATION		
OCCUPATION	TECHNICIAN	IVAIXI	CODE		
DUTY TITLE	CONDUCT	PARASITE	DUTY NO.	603	
DUITIILE	EXAMINATION	PARASITE	DUIT NO.	003	
TASK TITLE		MINIATION OF	TACK NO	6031	
IASK IIILE	CARRY OUT EXA WORM EGGS, I	ARVAE AND	TASK NO.	0031	
	,				
DEDECORMANCE	COCCIDIA OOCYSTS		1. 4	1	
PERFORMANCE	The person performing				
CRITERIA	and coccidia oocysts in detection standards.	reces according to c	perating procedures	s and parasite	
DANCE		was die the lebene			
RANGE	The task can be perform		•		
STATEMENT	senior Livestock Veter	=			
	instruments, equipment	and reagent consul	nables to be used in	iciude:	
	1. Microscope;				
	2. Electronic balance:				
	3. Tray balance;	100			
	4. Low speed centrifu	ige;			
	5. 1 mL pipettor;				
	6. Microscope;7. Manual counter;				
	· ·	h og hoolzarg alog	s alidas aavar alid	las 60 mash	
		_	s slides, cover slid		
		screens, glass rods, 15 mL centrifuge tubes, self-made wire rings (or			
	bacterial inoculation rings), and McMaster counting plates;				
	9. Reagents, such as saturated salt water and cedar oil;				
	10. Personal protective equipment, such as gloves, masks, and work				
clothes. EVIDENCE REQUIREMENT					
PRACTICAL PERI			G KNOWLEDGE		
	ng this task must be able	Detailed knowledge about:			
to do the following:	is this task mast be able	1.0 Methods	ige unout.		
	th and safety prevention				
measures;	J _F	The person performing this task must be able to			
2. Choose appropri	ate instruments.	explain how to:			
equipment and c		1.1 Collect and ic	lentify fecal sample	S.	
3. Configure the re-					
reagents;	1	2.0 Principle			
4. Collect and identify fecal samples;		The person performing this task must be able to			
5. Direct smear observation under		explain the following principles:			
microscope;		-			
_	-		2.1 Aseptic standard;		
items;	S		collecting differe	nt types of	
7. Observe microsc	cope;	detection indi	cators.		
8. Record the obser	=				
		i			

10. Shut down instruments and equipment,	The person performing this task must be able to		
clean countertops and workplaces;	explain the following:		
11. Handle consumables and test objects safely.	3.1 Morphological characteristics of worm eggs and larvae in feces;		
	3.2 Morphological characteristics of coccidia eggs in feces;		
	3.3 Morphological characteristics of other objects in feces;		
	3.4 Inspection methods of worm eggs and larvae in feces;		
	3.5 Clinical significance of examination of helminth eggs and larvae in feces;		
	3.6 Direct smear method;		
	3.7 Concentration method;		
	3.8 Floating method;		
	3.9 Precipitation method;		
	3.10Hatching method.		
	4.0 Essential Skills		
	4.1 Instrument operation skills;		
	4.2 Customer service skills;		
	4.3 Teamwork skills;		
	4.4 Report writing skills.		
DESCRIPTION OF THE END	Examination of worm eggs, larvae and coccidia		
PRODUCT / SERVICE	oocysts in feces is conducted as per approved		
CAD CAN ACTE VIEW A A ANNO MAIN ED CE	technical specifications and standards.		
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:		
	1. Correct operation of microscopes and other		
	instruments;2. Standard configuration of reagents such as		
	saturated brine;		
	3. Correct implementation of detection		
	methods;		
	4. Occupational health and safety;		
	5. Disposal methods of detection waste and consumables.		

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE			
DUTY TITLE	CONDUCT PARASITE EXAMINATION	DUTY NO.	603		
TASK TITLE	PERFORM EXAMINATION OF PARASITES IN SCRAPED OBJECTS OF SKIN 6032				
PERFORMANCE CRITERIA	The person performing this task must be able to perform examination of parasites in scraped objects of skin and examine according to the operating procedures and parasite detection standards.				
RANGE STATEMENT	The task can be performed in the laboral senior Livestock Veterinary Technician of tools and equipment to be used include: 1. Microscope; 2. Electronic balance; 3. Tray balance; 4. Low speed centrifuge; 5. Pipette; 6. Microscope; 7. Manual counter; 8. Consumables, such as scalpels, cell cover slides, screens, glass rods, 15 wire rings (or bacterial inoculation plates; 9. Reagents, such as normal saline, 10% cedar oil; 10. Personal protective equipment, such	lophane, beakers, g mL centrifuge tubes rings), and McMast NaOH, saturated sal	lass slides, self-made er counting		
	clothes.				
EVIDENCE DECLIDEMENT					

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE
The person performing this task must be able to do the following:	Detailed knowledge about: 1.0 Methods
1. Observe the health and safety prevention measures;	The person performing this task must be able to explain how to:
2. Choose appropriate instruments, equipment and consumables;	1.1 Collect and mark dander tissue sample;1.2 Check the map of skin parasites.
3. Configure the required standard reagents;	
4. Scrape dander tissue sample;	2.0 Principle
5. Observe smear	The person performing this task must be able to explain the following principles:
6. Choose appropriate methods for	2.1 Aseptic standard;
testing items; 7. Observe results;	2.2 Standard of collecting different types of detection indicators.
	2

8.	Record the observation results;	3.0 Theories		
9.	Judge the result;	The person performing this task must be able to explain		
10.	Shut down instruments and	the following:		
	equipment, clean countertops and workplaces;	3.1 Morphological characteristics of parasites in scraped objects of skin;		
11.	Handle consumables and test objects safely.	3.2 Morphological characteristics of other objects in scraped objects of skin;		
		3.3 Examination method of parasites in scraped objects of skin;		
		3.4 Clinical significance of examining parasites in scraped objects of skin;		
		3.6 Direct inspection method;		
		3.7 Scraping method;		
		3.8 Extrusion smear method;		
		3.9 Scotch tape adhesion method;		
		3.10Microscopic observation.		
		4.0 Essential Skills		
		4.1 Instrument operation skills;		
		4.2 Customer service skills;		
		4.3 Teamwork skills;		
		4.4 Report writing skills.		
	SCRIPTION OF THE END ODUCT / SERVICE	The examination of parasites in scraped objects of skin is performed according to the detection purpose and technical requirements.		
	RCUMSTANTIAL	Detailed knowledge about:		
KN	OWLEDGE	Correct operation of microscopes and other instruments;		
		2. Standard configuration of reagents such as 10%NaOH;		
		3. Correct implementation of detection methods;		
		4. Occupational health and safety;		
		5. Disposal methods of detection waste and consumables.		

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE	
DUTY TITLE	CONDUCT PARASITE EXAMINATION	DUTY NO. 603	
TASK TITLE	CARRY OUT EXAMINATION OF PARASITES IN ORGANS AND TISSUES	TASK NO. 6033	
PERFORMANCE CRITERIA	The person performing this task must be able to carry out the parasites in organs and tissues according to the operating procedures and parasite detection standards.		
RANGE STATEMENT	The task can be performed in the laborate senior Livestock Veterinary Technician or instruments, equipment and reagent consurful. Microscope; 2. Electronic balance; 3. Tray balance; 4. Low speed centrifuge; 5. 1 mL pipettor; 6. Microscope; 7. Manual counter; 8. Consumables, such as beakers, glass slirods, 15 mL centrifuge tubes, self-inoculation rings), and McMaster courful personal protective equipment, such clothes.	r a Licensed Veterinarian. The mables to be used include: ides, cover slides, screens, glass made wire rings (or bacterial nting plates; and cedar oil;	

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE		
The person performing this task must be able to do the following:	Detailed knowledge about: 1.0 Methods		
Observe the health and safety prevention measures;	The person performing this task must be able to explain how to:		
2. Choose appropriate instruments, equipment and consumables;	1.1 Collect pathological materials of tissues and organs;		
3. Configure the required standard reagents;	1.8. Check the map of parasites in tissues and organs.		

Collect pathological materials of 2.0 Principle tissues and organs; The person performing this task must be able to explain the following principles: 5. Choose appropriate methods for testing items: 2.1 Aseptic standard; 6. Observe results: 2.2 Standard of collecting different types of 7. Record the observation results; detection indicators. 8. Judge the result; 9. Shut down instruments and equipment, 3.0 Theories clean countertops and workplaces; The person performing this task must be able to 10. Handle consumables and test objects explain the following: safely. 3.1 Morphological characteristics of parasites in organs and tissues; 3.2 Examination methods of parasite in organs and tissues; 3.3 Clinical significance of examining parasites in organs and tissues; 3.4 Secretion smear method; 3.5 Microscopic examination of smear; 3.6 Venipuncture smear method; 3.7 Microscopic examination of tableting; 3.8 Muscle digestion method. 4.0 Essential Skills 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills: 4.4 Report writing skills. **DESCRIPTION OF THE END** The examination of parasites in organs and tissues is PRODUCT / SERVICE carried out according to the approved technical specifications and standards. CIRCUMSTANTIAL KNOWLEDGE **Detailed knowledge about:** Correct operation of microscopes and other instruments; 2. Standard configuration of reagents; Correct implementation of detection methods;

consumables.

4.

Occupational health and safety;

Disposal methods of detection waste and

OCCUPATION	LIVESTOCK VETER TECHNICIAN	RINARY	OCCUPATION CODE	
DUTY TITLE	CONDUCT EXAMINATION	PARASITE	DUTY NO.	603
TASK TITLE	EXAMINE THE PR WORMS LARVAE SAMPLES		TASK NO.	6034
PERFORMANCE CRITERIA	The person performing protozoa in blood san	_		
RANGE STATEMENT	protozoa in blood samples according to the parasite detection standards. The task can be performed in the laboratory under the supervision of a senior Livestock Veterinary Technician or a Licensed Veterinarian. The tools and equipment to be used include: 1. Microscope; 2. Electronic balance; 3. Tray balance; 4. Low speed centrifuge; 5. Pipette; 6. Microscope; 7. Manual counter; 8. Consumables, such as beakers, glass slides, cover slides, glass rods, centrifuge tube; 9. Reagents, such as saturated salt water and cedar oil; 10. Personal protective equipment, such as gloves, masks, and work			
	EVIDENCI	E REQUIREME	NT	
PRACTICAL PERF	ORMANCE	UNDERPINNING KNOWLEDGE		
 The person performing this task must be able to do the following: Observe the health and safety prevention measures; Choose appropriate instruments, equipment and consumables; Configure the required standard reagents; 		 Detailed knowledge about: 1.0 Methods The person performing this task must be able to explain how to: 1.1 Collect and mark blood samples; 1.2 Check the map of protozoon and worms larva in blood. 		8;
	ify blood samples;	2.0 Principle		

Choose appropriate inspection The person performing this task must be able to methods for testing items; explain the following principles: 6. Observe results; 2.1 Aseptic standard; 7. Record results; 2.2 Standard of collecting different types of detection indicators. 8. Judge the result; 9. Shut down instruments and equipment, clean countertops and workplaces; 3.0 Theories 10. Handle consumables and test objects The person performing this task must be able to safely. explain the following: 3.1 Morphological characteristics of protozoon and worm larvae in blood 3.2 Methods of examining protozoon and worm larvae in blood; 3.3 Clinical significance of examining protozoon and worm larvae in blood 3.4 Blood smear method; 3.5 Blood pressure drop; 3.6 Insect concentration; 3.7 Hemolysis check. 4.0 Essential Skills 4.1 Instrument operation skills; 4.2 Customer service skills; 4.3 Teamwork skills; 4.4 Report writing skills. **DESCRIPTION OF THE END** The examination of protozoon and worm larvae PRODUCT / SERVICE blood samples is carried out according to the detection purpose and technical requirements. CIRCUMSTANTIAL KNOWLEDGE **Detailed knowledge about:** Correct operation of microscopes and other instruments; Standard configuration of reagents such as saturated brine; Correct implementation of detection methods; Occupational health and safety; Disposal methods of detection waste and consumables.

OCCUPATION	LIVESTOCK VETER TECHNICIAN	RINARY	OCCUPATION CODE	
DUTY TITLE	PERFORM VALIDATION	CLINICAL	DUTY NO.	604
TASK TITLE	CARRY OUT ROUTINE EXAMIN	THE BLOOD ATION	TASK NO.	6041
PERFORMANCE CRITERIA	The person performin examination according standard index.	-		
RANGE STATEMENT	The task can be performed in the laboratory under the supervision of a senior Livestock Veterinary Technician or a Licensed Veterinarian. The instruments, equipment and consumables to be used include: 1. Microscope;			
	 Automatic blood cell analyzer; Consumables, such as beakers, glass slides, cover slides, glass rods centrifuge tube, blood lancet, cotton swab; Reagents, such as alcohol, saline, anticoagulant, Giemsa stain, Wrigh Stain; 			
	· ·	ve equipment, su	ach as gloves, ma	sks, and work
	EVIDENCE	E REQUIREMEN	VT.	
PRACTICAL PERI	FORMANCE	UNDERPINNIN	NG KNOWLEDGE	E
The person performing able to do the following	_	Detailed knowle	dge about:	
equipment and c 3. Configure the reagents; 4. Collect and mark 5. Preserve and train	opriate instruments, onsumables; required standard to blood samples; asport blood samples; ate inspection methods	explain how to: 1.1 Collect and to 1.2 Preserve and 1.3 Prepare and staining; 1.4 Use automat	rming this task must mark blood samples I transport blood sand d observe blood ic blood cell analyz ulation function aronent map.	; nples; smears after er;
7. Observe results;		2.0 Principle		

The person performing this task must be able to

explain the following principles:

2.1 Aseptic standard;

8. Record the results;

9.

Judge the result;

10. Shut down instruments and equipment,	2.2 Standard of collecting different types of		
clean countertops and workplaces;	detection indicators.		
11. Handle consumables and test objects	6		
safely.	3.0 Theories		
	The person performing this task must be able to		
	explain the following:		
	3.1 Principles and methods of blood routine test		
	3.2 Characters and physiological constants of blood of healthy animals;		
	3.3 Clinical significance of blood routine examination indicators;		
	3.4 Use method of instruments and equipment.		
	4.0 Essential Skills		
	4.1 Instrument operation skills;		
	4.2 Customer service skills;		
	4.3 Instrument operation skills;		
	4.4 Inspection report writing skills.		
DESCRIPTION OF THE END PRODUCT / SERVICE	The blood routine examination is performed according to the detection purpose and approved technical requirements		
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:		
	1. Correct operation of hematology analyzer and		
	other instruments		
	2. Standard configuration of reagents;		
	3. Correct implementation of detection methods;		
	4. Occupational health and safety;		
	5. Disposal methods of detection waste and		
	consumables.		

OC	CCUPATION	LIVESTO TECHNIC	CK VETERINARY IAN	OCCUPATION CODE	
DU	TY TITLE	PERFORM VALIDAT		DUTY NO.	604
TA	SK TITLE	CARRY OUT URINE ROUTINE TASK NO. EXAMINATION			6042
	RFORMANCE RITERIA	The person performing this task must be able to perform urine routine examination according to the operating procedure and urine routine standard index.			
	The task can be performed in the laboratory under the supervision of senior Livestock Veterinary Technician or a Licensed Veterinariar The instruments, equipment and consumables to be used include:			eterinarian.	
			scope;		
		analyzer;			
		-			
			ables, such as beakers, glass slides, cover slides, glass trifuge tubes, sampling cup, catheter, PH test paper;		
		6. Reagents, such as disinfectant, preservative, Giemsa stain, Writer and Stain and St			
		_	and cedar oil;		
		7. Personal protective equipment, such as gloves, masks, ar clothes.		s, and work	
	EVIDENCE REQUIREMENT				
PR	ACTICAL PERFOR	MANCE	UNDERPINNING KNOW	VLEDGE	
The person performing this task		Detailed knowledge about:			
mu	st be able to do the foll	owing:	1.0 Methods		
1.	1. Observe the health and safety prevention measures;		The person performing this task must be able to explain how to:		
2.	Choose appropriate		1.1 Collect and number urine samples;		
instruments, equipment and consumables;3. Configure the required standard reagents;		1.2 Store and transport urine samples;			
		1.3 Check blood compone	nt map.		
reagents; 4. Collect and preserve urine samples;		2.0 Principle			
		The person performing this	task must be able to	o explain	
5. Choose appropriate methods for		the following principles:			
testing items; 6. Observe results;		2.1 Aseptic standard;			
		2.2 Standard of collecting different types of detection indicators.			

7. Record results;	3.0 Theories	
8. Judge results;	The person performing this task must be able to explain	
9. Shut down instruments and	the following:	
equipment, clean countertops	3.1 Principles and methods of urine examination;	
and workplaces;	3.2 Characters and physiological constants of urine of	
10. Handle consumables and test	healthy animals;	
objects safely.	3.3 Clinical significance of urine indicators;	
	3.4 The proper use of instruments and equipment;	
	3.5 Urine sensory examination method;	
	3.6 Urine and SG examination method;	
	3.7 Test paper examination method;	
	3.8 Urine protein boiling and acid adding method;	
	3.9 Sulfosalicylic acid method;	
	3.10Blood in urine benzidine method;	
	3.11 Urine chemical analyzer method;	
	3.12 Urine glucose test paper method;	
	3.13 Ketone body sodium nitroferricyanide method.	
	4.0 Essential Skills	
	4.1 Instrument operation skills;	
	4.2 Customer service skills;	
	4.3 Teamwork skills;	
	4.4 Report writing skills.	
DESCRIPTION OF THE END PRODUCT / SERVICE	Urine routine examination is performed according to the detection purpose and technical requirements.	
CIRCUMSTANTIAL	Detailed knowledge about:	
KNOWLEDGE	1. Correct operation of urine analyzer and other instruments;	
	2. Standard configuration operation of reagents such as sodium nitroferricyanide;	
	3. Correct implementation of detection methods;	
	4. Occupational health and safety;	

OCCUPATION	LIVESTO TECHNIC	CK VETERINARY CIAN	OCCUPATION CODE	
DUTY TITLE	PERFORM VALIDAT	M CLINICAL ΓΙΟΝ	DUTY NO.	604
TASK TITLE	CONDUC EXAMIN	T FECES ROUTINE ATION	TASK NO.	6043
PERFORMANCE CRITERIA	The person performing this task must be able to conduct feces routine examination according to the operating procedure and feces routine standard index.			
STATEMENT senior Lives		an be performed in the labor vestock Veterinary Technici ments, equipment and consu	an or a Licensed V	Veterinarian.
	2. Consurods, o3. eagen	nmables, such as beakers, gentrifuge tube, occult blood ts, such as normal saline, beat nal protective equipment, su	qualitative test kit, nzidine;	screens;
EVIDENCE REQUIREMENT				
PRACTICAL PERFO	PRACTICAL PERFORMANCE UNDERPINNING KNOWLEDGE			
The person performing this task must be able to do the following:		Detailed knowledge about: 1.0 Methods		
1. Observe the safety a prevention measures		The person performing this how to:	s task must be able to	o explain
Choose appropriate instruments, equipm consumables;	ent and	1.1 Collect and identify fe1.2 Number and handle fe	_	
3. Collect and identify	fecal			
samples;	iccai	2.0 Principle		
•		The person performing this the following principles:	s task must be able to	o explain
samples; 4. Check the physical p	properties of	The person performing this the following principles: 2.1 Aseptic standard; 2.2 Standard of collectin		•
samples; 4. Check the physical process; 5. Check the composition impurities; 6. Judge the result;	properties of ion of fecal	The person performing this the following principles: 2.1 Aseptic standard;		•
samples; 4. Check the physical process; 5. Check the composite impurities;	properties of ion of fecal nts and	The person performing this the following principles: 2.1 Aseptic standard; 2.2 Standard of collectin	g different types o	of detection

	3.2 Characters and physiological constants of feces of	
	healthy animals;	
	3.3 Clinical significance of feces examination indicators	
	3.4 Method for determination of acidity and basicity feces;	
	3.5 Occult blood test of feces;	
	3.6 Impurities inspection smear method.	
	4.0 Essential Skills	
	4.1 Instrument operation skills;	
	4.2 Customer service skills;	
	4.3 Teamwork skills;	
	4.4 Report writing skills.	
DESCRIPTION OF THE END PRODUCT / SERVICE	Feces examination is carried out according to the detection purpose and approved technical requirements	
CIRCUMSTANTIAL	Detailed knowledge about:	
KNOWLEDGE	1. Correct operation of microscopes and other testing instruments;	
	2. Standard configuration of reagents;	
	3. Correct implementation of detection methods;	
	4. Occupational health and safety;	
	5. Disposal methods of detection waste and consumables.	

OCCUPATION	LIVESTO TECHNIC	CK VETERINARY CIAN	OCCUPATION CODE	
DUTY TITLE	PERFORM VALIDAT		DUTY NO.	604
TASK TITLE	CARRY EXAMIN	OUT BIOCHEMICAL ATION	TASK NO.	6044
PERFORMANCE CRITERIA	examination	The person performing this task must be able to carry out biochemical examinations according to the operating procedure and animal biochemical standard index.		
RANGE STATEMENT	senior Live The tools at 1. Micro 2. Blood 3. Electro 4. Tray be 5. Low se 6. Pipett 7. Consurods, 6. Reage 8. Reage	 Blood biochemical analyzer; Electronic balance; Tray balance; Low speed centrifuge; Pipette; Consumables, such as beakers, glass slides, cover slides, glass, centrifuge tube, blood lancet, cotton swab; Reagents, such as alcohol, saline, anticoagulant; Personal protective equipment, such as gloves, masks, and w 		Veterinarian.
	EVII	DENCE REQUIREMENT		
PRACTICAL PERF	ORMANCE	UNDERPINNING KNOW	WLEDGE	
 The person performing must be able to do the Observe the safety prevention measure Choose appropriation instruments, equipos consumables; Collect and identifications; 	following: y and health res; tte pment and	Detailed knowledge abou 4.4 Methods The person performing this how to: 1.1 Collect and mark bloo 1.2 Preserve and transport 1.3 Treat blood samples. 2.0 Principle	s task must be able t d samples;	o explain
4. Preserve and transsamples;5. Check the physical	•	The person performing this the following principles:	s task must be able t	o explain
urine; 6. Check the chemic composition of ur		2.1 Aseptic standard;2.2 Standard of collectin indicators.	g different types	of detection
7. Check urine sedir8. Judge results;	nent;	3.0 Theories		

9. Shut down instruments and	The person performing this task must be able to explain
equipment, clean countertops	the following:
and workplaces;	3.1 Principles and methods of biochemical examination;
10. Handle consumables and test objects safely.	3.2 Clinical significance of biochemical indicators;
objects safety.	3.3 Liver function examination;
	3.4 Renal function examination;
	3.5 Blood lipid and blood glucose examination;
	3.6 Cardiac enzyme examination;
	3.7 Ion detection method;
	3.8 Blood biochemical analyzer method.
	4.0 Essential Skills
	4.1 Communication skills;
	4.2 Customer service skills;
	4.3 Teamwork skills;
	4.4 Report writing skills.
DESCRIPTION OF THE END PRODUCT / SERVICE	Biochemical examinations are carried out according to the detection purpose and approved technical requirements.
CIRCUMSTANTIAL	Detailed knowledge about:
KNOWLEDGE	Correct operation of blood biochemical analyzer and other instruments
	2. Standard configuration of reagents;
	3. Correct implementation of detection methods;
	4. Occupational health and safety;
	5. Disposal methods of detection waste and
	consumables.

OCCUPATION	LIVESTOCK VET TECHNICIAN	IVESTOCK VETERINARY ECHNICIAN OCCUPATION CODE		
DUTY TITLE	CONDUCT NECR	OPSY	DUTY NO.	605
TASK TITLE	PERFORM STANI OF LIVESTOCK A CARCASSES	DARD NECROPSY AND POULTRY	TASK NO.	6051
PERFORMANCE CRITERIA	of livestock and po	The person performing this task must be able to carry out standard necropsy of livestock and poultry carcasses according to the technical requirements of livestock and poultry carcass autopsy.		
RANGE STATEMENT	carcass under the sand can also be can also be can instruments and drule. 1. Knivers (peeling 2. Scissors (surging 3. Tweezer; 4. Bone saws; 5. Axe; 6. Sharpening stered 7. Grindstone; 8. Disinfectants; 9. Fixation fluid;	toring pathological tiss (basin or jar);	ivestock Veterinary conditions do not gical knives); cissors, bone shears	Technician, permit. The
EVIDENCE REQUIREMENT				
PRACTICAL PERFORMANCE		UNDERPINNING K		
The person performing this task must be		Detailed knowledge a	about:	
able to do the following	ng:	1.0 Methods		
Choose appropris drugs;	ate equipment and	The person performing explain how to:	g this task must be a	able to
2. Choose the tin autopsy;3. Investigate the me	ne and place of	1.1 Dissect and exampigs, poultry and		eattle, sheep,

- 4. Eliminate anthrax;
- 5. Identify changes in corpses;
- 6. Check the body surface;
- 7. Peel and examine subcutaneous tissue:
- 8. Open and examine the abdominal cavity;
- 9. Open and examine the chest cavity;
- 10. Open and examine the cranial cavity;
- 11. Open and examine the nasal cavity;
- 12. Examine muscles, joints and bone marrow;
- 13. Collect, pack and send pathological material for examination;
- 14. Record the necropsy results;
- 15. Disinfect and take proper personal protection;
- 16. Treat livestock and poultry carcass in a harmless way.

- 1.2 Collect, pack and send pathological material for examination;
- 1.3 Record autopsy findings;
- 1.4 Treat corpses in a harmless way.

The person performing this task must be able to explain the following principles:

- 2.1 Purpose and significance of necropsy of livestock and poultry carcass;
- 2.2 Procedures of necropsy of livestock and poultry
- 2.3 Changes of necropsy of livestock and poultry.

3.0 Theories

The person performing this task must be able to explain the following:

- 3.1 Precaution of necropsy;
- 3.2 Different necropsy methods of livestock and poultry carcasses;
- 3.3 Observation and recording methods of cadaver lesions.

4.0 Essential Skills

- 4.1 Communication skills;
- 4.2 Teamwork skills;
- 4.3 Practical operation skills;
- 4.4 Report writing skills;
- 4.5 Entrepreneurial skills.

DESCRIPTION OF THE END PRODUCT / SERVICE

Standard necropsy of livestock and poultry carcasses is performed in accordance with the approved technical specifications and standards.

CIRCUMSTANTIAL KNOWLEDGE

- 1. Standardized operation of necropsy;
- 2. Safe use of instruments and medicines;
- 3. Self-protection measures of autopsy personnel;
- 4. Disposal of instruments and supplies after autopsy;
- 5. Disposal of corpses and sites after autopsy.

OCCUPATION	LIVESTOCK	LIVESTOCK VETERINARY OCCUPATION TECHNICIAN CODE		
DUTY TITLE	CONDUCT N		DUTY NO.	605
TASK TITLE	IDENTIFY L	IVESTOCK AND RGAN LESIONS	TASK NO.	6052
PERFORMANCE CRITERIA	The person performing this task must be able to identify livestock and poultry organ lesions according to technical requirements of animal and poultry organ lesion identifications.			
RANGE STATEMENT	poultry organ lesions according to technical requirements of animal and		Technician, permit. The	
		protective equipment. ENCE REQUIREMENT		
PRACTICAL PERFORMANCE		UNDERPINNING KNO	WLEDGE	
The person performing this task must		Detailed knowledge about	ıt:	
be able to do the follow1. Choose appropria and drugs;	•	1.0 Methods The person performing thi how to:	s task must be able	to explain
 Identify lymph node lesions; Identify lung lesions; Identify heart disease lesions; 		1.1 Examine organs and to 1.2 Collect, pack and se examination;		material for

- 5. Identify splenic lesions;
- 6. Identify liver lesions;
- 7. Identify renal lesions;
- 8. Identify gastric lesions;
- 9. Identify intestinal lesions;
- 10. Identify pelvic organ lesions;
- 11. Identify brain and spinal cord lesions;
- 12. Collect, pack and send pathological material for examination;
- 13. Record the necropsy findings of each organ;
- 14. Disinfect and take proper personal protection;
- 15. Treat livestock and poultry viscera in a harmless way.

- 1.3 Record the necropsy findings of each organ;
- 1.4 Treat livestock and poultry viscera in a harmless way.

The person performing this task must be able to explain the following principles:

- 2.1 Normal anatomical structure of various organs of livestock and poultry
- 2.2 Pathological changes of various organs of livestock and poultry.

3.0 Theories

The person performing this task must be able to explain the following:

- 3.1 Pathological changes of common organs of livestock and poultry;
- 3.2 Comprehensive observation of organ lesions of livestock and poultry;
- 3.3 Objective description and detailed record of organ lesions of livestock and poultry.

4.0 Essential Skills

- 4.1 Communication skills;
- 4.2 Teamwork skills;
- 4.3 Practical operation skills;
- 4.4 Report writing skills;
- 4.5 Entrepreneurial skills.

DESCRIPTION OF THE END PRODUCT / SERVICE

Identification of livestock and poultry organ lesions is performed in accordance with the approved technical requirements.

CIRCUMSTANTIAL KNOWLEDGE

- 1. Standardized operation of viscera autopsy;
- 2. Safe use of instruments and medicines;
- 3. Self-protection measures of autopsy personnel;
- 4. Disposal of instruments and supplies after autopsy;
- 5. Disposal of corpses and sites after autopsy.

OCCUPATION	LIVESTOCK	VETERINARY	OCCUPATION	
	TECHNICIAN		CODE	
DUTY TITLE	CONDUCT NI	ECROPSY	DUTY NO.	605
TASK TITLE	ANIMAL EPI	PERFORM IDENTIFICATION OF TASK NO. 6053 ANIMAL EPIDEMIC DISEASES BY OBSERVING TYPICAL LESIONS		6053
PERFORMANCE CRITERIA	disease by obs	The person performing this task must be able to identify animal epidemic disease by observing typical lesions according to the standard animal epidemic diseases identification procedures.		
RANGE STATEMENT		e performed in pathology la stock Veterinary Technician	•	•
	1. Knivers (p	eeling knives, scalpels, surg	cical knives);	
	2. Scissors (s	urgical scissors, intestinal so	cissors, bone shears);
	3. Tweezer;			
	4. Disinfectar	,		
	5. Microscop			
	6. Refrigerate			
		7. Paraffin slicer;		
	8. Staining solution; On Debydration agents			
	9. Dehydration agent;10. Transparent agent;			
	11. Fixation fluid;			
	12. Record boo	,		
	13. Pens;	,		
	14. Camera;			
	15. Personal p	15. Personal protective equipment.		
	EVIDENCE REQUIREMENT			
PRACTICAL PERFORMANCE		UNDERPINNING KNO	WLEDGE	
The person performing this task must		Detailed knowledge abou	ıt:	
be able to do the following:		1.0 Methods		
1. Choose appropriate equipment and drugs;		The person performing this how to:	s task must be able t	to explain
2. Observe typical le	2. Observe typical lesions;		ith naked eyes;	
3. Collect, pack	and send	1.2 Observe the lesions w	ith microscope;	
pathological rexamination;	naterial for	1.3 Collect, pack and so examination;	end pathological n	naterial for

- 4. Make paraffin slices;
- 5. Stain;
- 6. Observe typical lesions with microscope;
- 7. Record typical lesions;
- 8. Analyze typical lesions;
- 9. Identify animal epidemic diseases;
- 10. Disinfect and take proper personal protection;
- 11. Treat diseased organs in a harmless way.

- 1.4 Make paraffin sections and stain them;
- 1.5 Analyze lesions;
- 1.6 Treat diseased viscera in a harmless way.

The person performing this task must be able to explain the following principles:

- 2.1 Normal anatomical structure and tissue structure of livestock and poultry organs;
- 2.2 Typical ocular and microscopic lesions of animal diseases.

3.0 Theories

The person performing this task must be able to explain the following:

- 3.1 Typical lesions of various animal epidemic diseases;
- 3.2 Circumstantial knowledge of animal pathological anatomy;
- 3.3 Techniques of making histopathological sections;
- 3.4 Use and maintenance methods of microscope.

4.0 Essential Skills

- 4.1 Communication skills;
- 4.2 Teamwork skills;
- 4.3 Practical operation skills;
- 4.4 Report writing skills;
- 4.5 Entrepreneurial skills.

DESCRIPTION OF THE END PRODUCT / SERVICE

Identification of animal epidemic diseases by observing typical lesions is performed in accordance with the approved technical requirements.

CIRCUMSTANTIAL KNOWLEDGE

- 1. Standardized operation of identifying animal diseases by observing typical lesions;
- 2. Safe use of instruments and medicines;
- 3. Self-protection measures of autopsy personnel;
- 4. Disposal of instruments and supplies after autopsy;
- 5. Treatment of organs, tissues and sites after autopsy;

OCCUPATION	LIVESTOCK VETERI TECHNICIAN	NARY	OCCUPATION CODE	
DUTY TITLE	CONDUCT NECROPS	SY	DUTY NO.	605
TASK TITLE	ISSUE NECROPSY LIVESTOCK AND CARCASSES		TASK NO.	6054
PERFORMANCE CRITERIA	The person performing this task must be able to issue necropsy reports of livestock and poultry carcasses according to the necropsy records and pathological anatomy diagnosis results.			
RANGE STATEMENT	The task can be performed in the office under the guidance of a senior Livestock Veterinary Technician. The tools and equipment to be used include: 1. Record books;			
	2. Pens;			
	3. Computers;			
	4. Camera;			
	5. Standard form of autopsy record;			
	6. Printer.			
	7. Safety and protecti	ve gears		
	EVIDENCE 1	REQUIREMEN	T	
PRACTICAL PERF	ORMANCE	UNDERPINNI	ING KNOWLEDG	E

PR	ACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE
	e person performing this task must be able do the following:	Detailed knowledge about: 1.0 Methods
1. 2.	Select appropriate tools and equipment; Overview necropsy;	The person performing this task must be able to explain how to:
3.	Describe the necropsy findings;	1.1 Identify lesions;
4.	Carry out gross pathological diagnosis;	1.2 Analyze lesions;
5.	Get the conclusion of necropsy;	1.3 Give observation and analysis;
6.	Issue a necropsy report.	1.4 Write necropsy report.
7.	Observe health, occupational and environmental safety rules and	2.0 Principles
	regulations	The person performing this task must be able to explain the following principles:
		2.1 Understanding and analysis of lesions;
		2.2 Gross Pathological diagnosis.
		3.0 Theories

	The person performing this task must be able to	
	explain the following:	
	3.1 Typical lesions of various animal epidemic diseases;	
	3.2 Related theories of pathological anatomy;	
	3.3 Requirements for writing necropsy reports of animal carcasses.	
	4.0 Essential Skills	
	4.1 Communication skills;	
	4.2 Teamwork skills;	
	4.3 Report writing skills;	
	4.4 Comprehensive analysis skills;	
	4.5 Problem-solving skills;	
	4.6 Entrepreneurial skills.	
DESCRIPTION OF THE END PRODUCT / SERVICE	Necropsy report of livestock and poultry carcasses is issued in accordance with the approved	
	technical requirements.	
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:	
	1. Knowledge of writing necropsy report;	
	2. Methodology of comprehensive analysis of problems.	

OCCUPATION	LIVESTOCK VETER TECHNICIAN	INARY	OCCUPATION CODE	
DUTY TITLE	CONDUCT PO QUARANTINE AND	ST-SLAUGHTER TREATMENT	DUTY NO.	606
TASK TITLE	CARRY OUT PO QUARANTINE AND OF CATTLE	OST-SLAUGHTER D TREATMENT	TASK NO.	6061
PERFORMANCE CRITERIA	The person performing quarantine and treatment of post-slaughter quarantine	ent of cattle according	ng to the technical i	_
RANGE STATEMENT	This task must be per house during the slaug include: 1. Quarantine knives 2. Sharp knife for bo	the of cattle. The in (2);		_
	 Quarantine hook; Rasp rod; Disinfectant; Personal protectiv 			
	EVIDENCE	REQUIREMENT		
PRACTICAL PERFORMANCE		UNDERPINNING	G KNOWLEDGE	
The person performin able to do the following. 1. Choose appropriating drugs;	ng:	Detailed knowleds 1.0 Methods The person perform explain how to:	ge about:	be able to
 Number uniform Check the head a Check viscera; Check carcass; Perform re-exam Process the result Disinfection; Do harmless treat Take proper person 	ination; is; tment; onal protection;	1.1 Carry out examination, r olfactory exam 1.2 Issue the Ani those passing to 1.3 Issue the N	imal Quarantine Co the quarantine inspe- totice of Animal or those failing the pection;	mination and ertificate for ection; Quarantine
11. Record quarantin	e.	2.0 Principle		

12. Observe health, occupational and	The person performing this task must be able to
environmental safety rules and	explain the following principles:
regulations	2.1 Purpose and significance of cattle quarantine after slaughter;
	2.2 Procedures and methods of post-slaughter quarantine of cattle;
	2.2 Treatment of quarantine results of cattle after slaughter.
	3.0 Theories
	The person performing this task must be able to explain the following:
	3.1 Relevant regulations on animal epidemic prevention;
	3.2 Requirements for post-slaughter quarantine of animals;
	3.3 Pathological changes of prescribed diseases in cattle;
	3.4 Commonly-used disinfecting methods;
	3.5 Use method of the protective mask.
	4.0 Essential Skills
	4.1 Communication skills;
	4.2 Teamwork skills;
	4.3 Practical operation skills;
	4.4 Comprehensive analysis skills;
	4.5 Problem-solving skills;
	4.6 Entrepreneurial skills.
DESCRIPTION OF THE END PRODUCT / SERVICE	Post-slaughter quarantine and treatment of cattle is conducted in accordance with the technical requirements.
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:
	Quarantine regulations for cattle after slaughter;
	2. Health and safety protection in the process of
	post-slaughter quarantine;

OCCUPATION	LIVESTOCK VETERI TECHNICIAN	NARY	OCCUPATION CODE	
DUTY TITLE	CONDUCT POST-SLAUGHTER QUARANTINE AND TREATMENT		DUTY NO.	606
TASK TITLE	CARRY OUT POST-SLAUGHTER QUARANTINE AND TREATMENT OF SHEEP		TASK NO.	6062
PERFORMANCE CRITERIA	The person performing quarantine and treatme post-slaughter quarantin	ent of sheep accord	ling to technical requ	_
RANGE STATEMENT	This task must be perhouse during the slaughinclude: 1. Quarantine knives 2. Sharp knife for bor 3. Quarantine hook; 4. Rasp rod; 5. Disinfectant; 6. Personal protective	hter of sheep. The (2); ne removal;		_
	EVIDENCE	REQUIREMENT	Γ	
PRACTICAL PERFORMANCE		UNDERPINNIN	G KNOWLEDGE	
The person performi	· ·	Detailed knowled	lge about:	
able to do the follow 1. Choose appropring drugs;	ing: oriate equipment and	1.0 Methods The person perforexplain how to:	ming this task must b	e able to
 Number uniform Check the head Check viscera; Check carcass; Perform re-exam Process the result Disinfection; Do harmless treat Take proper person Record quarantin 	and hoof; nination; lts; ntment; sonal protection;	olfactory example of the Arthose passing 1.3 Issue the Arthogonal Properties of the Arthogonal Prop	nimal Quarantine Ce the quarantine inspect Notice of Animal or those failing to spection;	ertificate for etion; Quarantine
		2.0 Principle		

12. Observe health, occupational and	The person performing this task must be able to
environmental safety rules and	explain the following principles:
regulations	2.1 Purpose and significance of sheep quarantine after slaughter;
	2.2 Procedures and methods of post-slaughter quarantine of sheep;
	2.2 Treatment of quarantine results of sheep after slaughter.
	3.0 Theories
	The person performing this task must be able to explain the following:
	3.1 Relevant regulations on animal epidemic prevention;
	3.2 Requirements for post-slaughter quarantine of animals;
	3.3 Pathological changes of prescribed diseases in sheep;
	3.4 Commonly-used disinfecting methods;
	3.5 Use method of the protective mask.
	4.0 Essential Skills
	4.1 Communication skills;
	4.2 Teamwork skills;
	4.3 Practical operation skills;
	4.4 Comprehensive analysis skills;
	4.5 Problem-solving skills;
	4.6 Entrepreneurial skills.
DESCRIPTION OF THE END PRODUCT / SERVICE	Post-slaughter quarantine and treatment of sheep is conducted in accordance with technical requirements.
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:
	1. Quarantine regulations for sheep after
	slaughter;
	slaughter; 2. Health and safety protection in the process of

OCCUPATION	LIVESTOCK VETI	ERINARY	OCCUPATION		
	TECHNICIAN		CODE		
DUTY TITLE	CONDUCT POST-	SLAUGHTER	DUTY NO.	606	
	QUARANTINE AN	ID TREATMENT			
TASK TITLE	CARRY OUT POS		TASK NO.	6063	
	OF PIGS	QUARANTINE AND TREATMENT OF PIGS			
PERFORMANCE	The person perform	ing this task must be	able to carry out po	st-slaughter	
CRITERIA	*	tment of pig accordin		irements of	
	post-slaughter quara	antine and treatment of	pigs.		
RANGE	-	performed by the offici		•	
STATEMENT	include:	aughter of pig. The ins	struments and drugs	s to be used	
	1. Quarantine kniv	ves (2);			
	2. Sharp knife for	bone removal;			
	3. Quarantine hoo	k;			
	4. Rasp rod;				
5. Disinfectant;					
	6. Personal protec	tive equipment.			
	EVIDENC	E REQUIREMENT			
PRACTICAL PER	FORMANCE	UNDERPINNING I	KNOWLEDGE		
The person performing	ng this task must be	Detailed knowledge	about:		
able to do the follow:	ng:	1.0 Methods			
1. Choose appropri	ate equipment and	The person performing this task must be able to		able to	
drugs;	1	explain how to:			
2. Number uniform3. Check African s	y; wine fever quickly;	1.1 Carry out sensory examination (visu examination, necropsy, touch examination ar	`		
4. Check the head,	1	olfactory examin	= -	illiation and	
5. Check the intern	•	1.2 Undertake micro	•	•	
6. Check the carcas	-	1.3 Issue the Anim	al Quarantine Cer	tificate for	
7. Check Trichinell	•	those passing the quarantine inspection;		ion;	
8. Perform re-exam	-	1.4 Issue the Not		-	
9. Process the resul	ts;	Treatment for quarantine inspe	those failing to	pass the	
10. Disinfect;		1.5 Disinfection;			
11. Do harmless trea	tment;	1.6 Harmless treatm	ent.		
12. Take proper pers	onal protection;				
	ne.	1			

14. Observe health, occupational and	The person performing this task must be able to		
environmental safety rules and	explain the following principles:		
regulations	2.1 Purpose and significance of pig quarantine after slaughter;		
	2.2 Procedures and methods of post-slaughter quarantine of pig;		
	2.2 Treatment of quarantine results of pig after slaughter.		
	3.0 Theories		
	The person performing this task must be able to explain the following:		
	3.1 Relevant regulations on animal epidemic prevention;		
	3.2 Requirements for post-slaughter quarantine of animals;		
	3.3 Pathological changes of prescribed diseases in pig;		
	3.4 Commonly-used disinfecting methods;		
	3.5 Use method of the protective mask.		
	4.0 Essential Skills		
	4.1 Communication skills;		
	4.2 Teamwork skills;		
	4.3 Practical operation skills;		
	4.4 Comprehensive analysis skills;		
	4.5 Problem-solving skills;		
	4.6 Entrepreneurial skills.		
DESCRIPTION OF THE END PRODUCT / SERVICE	Post-slaughter quarantine and treatment of pigs is performed in accordance with technical requirements.		
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:		
	1. Quarantine regulations for pig after slaughter;		
	2. Examination of Trichinella spiralis in pigs;		
	3. Health and safety protection in the process of		
	post-slaughter quarantine;		
	4. Biosafety knowledge.		

OCCUPATION	LIVESTOCK V TECHNICIAN		OCCUPATION CODE	
DUTY TITLE	CONDUCT POST-SLAUGHTER QUARANTINE AND TREATMENT		DUTY NO.	606
TASK TITLE		POST-SLAUGHTER E AND TREATMENT	TASK NO.	6064
PERFORMANCE CRITERIA	The person performing this task must be able to carry out post-slaughter quarantine and treatment of poultry according to the technical requirements of post-slaughter quarantine and treatment of poultry			-
RANGE STATEMENT This task must be performed by the official veterinarian in the slaugh house during the slaughter of poultry. The instruments and drugs to be include: 1. Quarantine knives (2); 2. Sharp knife for bone removal; 3. Quarantine hook; 4. Rasp rod; 5. Disinfectant; 6. Personal protective equipment.			_	
	EVID	ENCE REQUIREMEN	T	
PRACTICAL PERF	ORMANCE	UNDERPINNING KN	NOWLEDGE	
The person performing be able to do the follow	_	Detailed knowledge al 1.0 Methods	bout:	
 Choose appropriate equipment and drugs; Check carcass; Make sampling inspection; Perform re-examination Process the results; Disinfect; Do harmless treatment; Take proper personal protection; Record quarantine. Observe health, occupational and environmental safety rules and 		The person performing how to: 1.1 Carry out sensory necropsy, touch	examination (visua	-
		examination); 1.2 Issue the Animal passing the quaran 1.3 Issue the Notice of	Quarantine Certification inspection; Animal Quarantine inspection inspection.	cate for those Treatment for
regulations	ery rules and	2.0 Principle The person performing the following principles		le to explain

	2.1 Purpose and significance of poultry quarantine after			
	slaughter; 2.2 Procedures and methods of post-slaughter quarantine of poultry;			
	2.2 Treatment of quarantine results of poultry after slaughter.			
	3.0 Theories			
	The person performing this task must be able to explain the following:			
	3.1 Relevant regulations on animal epidemic prevention;			
	3.2 Requirements for post-slaughter quarantine of animals;			
	3.3 Pathological changes of prescribed diseases in poultry;			
	3.4 Commonly-used disinfecting methods;			
	3.5 Use method of the protective mask.			
	4.0 Essential Skills			
	4.1 Communication skills;			
	4.2 Teamwork skills;			
	4.3 Practical operation skills;			
	4.4 Comprehensive analysis skills;			
	4.5 Problem-solving skills;			
	4.6 Entrepreneurial skills.			
DESCRIPTION OF THE END PRODUCT / SERVICE	Post-slaughter quarantine and treatment of poultry is performed in accordance with technical requirements.			
CIRCUMSTANTIAL	Detailed knowledge about:			
KNOWLEDGE	1. Quarantine regulations for poultry after slaughter;			
	2. Health and safety protection in the process of post-slaughter quarantine;			
	3. Biosafety knowledge.			

OCCUPATION	LIVESTOCK VETER TECHNICIAN	INARY	OCCUPATION CODE	
DUTY TITLE		CONDUCT POST-SLAUGHTER QUARANTINE AND TREATMENT		606
TASK TITLE	CARRY OUT POST-S QUARANTINE AND OF RABBITS		TASK NO.	6065
PERFORMANCE CRITERIA	The person performing this task must be able to carry out post-slaughter quarantine and treatment of rabbits according to technical requirements of post-slaughter quarantine and treatment of rabbits.			
RANGE STATEMENT				_
	EVIDENCE	REQUIREMEN	ΙΤ	
PRACTICAL PERF	ORMANCE	UNDERPINNI	NG KNOWLEDGI	E
The person performing		Detailed knowledge about:		
able to do the following. 1. Choose appropring drugs;	ng: riate equipment and	The person perfection how to:	Forming this task m	ust be able to
 Make sampling ir Check the internation Take re-examination 	l organs;	1.1 Carry out examination olfactory ex	sensory examin n, necropsy, touch ex amination);	amination and
5. Process the results;6. Disinfect;			Animal Quarantine of the quarantine ins	
7. Do non-destructive8. Take proper person	onal protection;		Notice of Anima for those failing nspection;	-
9. Record quarantine.10. Observe health, occupational and environmental safety rules and regulations		1.4 Disinfect; 1.5 Do harmles	s treatment.	
J		2.0 Principle		

	The person performing this task must be able to explain the following principles:		
	2.1 Purpose and significance of rabbit quarantine after slaughter;		
	2.2 Procedures and methods of post-slaughter quarantine of rabbit;		
	2.2 Treatment of quarantine results of rabbit after slaughter.		
	3.0 Theories		
	The person performing this task must be able to explain the following:		
	3.1 Relevant regulations on animal epidemic prevention;		
	3.2 Requirements for post-slaughter quarantine of animals;		
	3.3 Pathological changes of prescribed diseases in rabbit;		
	3.4 Commonly-used disinfecting methods;		
	3.5 Use method of the protective mask.		
	4.0 Essential Skills		
	4.1 Communication skills;		
	4.2 Teamwork skills;		
	4.3 Practical operation skills;		
	4.4 Comprehensive analysis skills;		
	4.5 Problem-solving skills;		
	4.6 Entrepreneurial skills.		
DESCRIPTION OF THE END PRODUCT / SERVICE	Post-slaughter quarantine and treatment of rabbits is performed in accordance with technical requirements.		
CIRCUMSTANTIAL KNOWLEDGE	Detailed knowledge about:		
	1. Quarantine regulations for rabbit after slaughter;		
	2. Health and safety protection in the process of		
	post-slaughter quarantine;		
	3. Biosafety knowledge.		

OCCUPA	TION LIVESTOCK	VETERINARY	OCCUPATION	
	TECHNICIA	N	CODE	
DUTY TIT	CLE PERFORM	ANIMAL FEEDING	DUTY NO.	607
	AND MANA	GEMENT		
TASK TIT	LE CONDUCT	MANAGEMENT OF	TASK NO.	6071
	DELIVERY	ROOM		
PERFORM	IANCE The person pe	erforming this task must be	e able to manage the	delivery roon
CRITERIA	in accordanc	e with the technical req	uirements and the	key points o
	standardized	management of the deliver	ry room.	
RANGE	The task can	be performed in the delive	ery room under the s	upervision of
STATEMI	enior Livest	tock Veterinary Technici	an or a Midwife.	The tools and
	equipment to	be used include:		
	1. Water ba	sin;		
	2. Bucket;			
	3. Gauze;			
	4. Ligation	rope;		
	5. Lighting	equipment;		
	6. Soap;			
	7. Thermon	neter;		
	8. Cotton;			
	9. Tooth cu	itting and tail cutting too	ols (tooth cutting fo	orceps and tai
	cutting fo	orceps);		
	10. Disinfect	ion drugs (alcohol, 2-5% i	iodine, 0.1% bromog	geramine);
	11. Delivery	drugs (oxytocin, cardiotor	nic agent, antibiotic,	glucose saline
	etc.);			
	12. Young an	nimals' incubator.		
	13. Safety ge	ar		
	EVI	DENCE REQUIREMEN	NT	
PRACTIC	AL PERFORMANCE	UNDERPINNING K	NOWLEDGE	
The person	performing this task must	Detailed knowledge a	bout:	
be able to d	o the following:	1.0 Methods		
1. Observ	e the health and safety	The person performing	The person performing this task must be able to explain	
prevention measures;Choose appropriate prenatal articles and tools;Assist delivery stably,		how to:	,	1
			ntation plans for	delivery roor
			1.1 Prepare implementation plans for delivery ropreparation, delivery goods preparation, delivery	
			treatment, and nursi	
accurat	ely, lightly and quickly	animals.	deadificiti, and nursi	ng of newborn
accord	ing to the requirements of	anniais.		
deliver	y;			

the following principles:

2.0 Principle

The person performing this task must be able to explain

2.1 Implementation principle of normal delivery;

4. Carry out drug midwifery first in case of death and artificial

midwifery if drug midwifery is

ineffective.

5. Carry out umbilical cord cutting		2.2 Implementation principle of dystocia.		
	treatment on the produced			
	piglets;	3.0 Theories		
6.	Assist primiparous piglets to eat colostrum;	The person performing this task must be able to explain		
7.	Observe the situation of newborn	the following:		
'`	animals at any time;	3.1 Reason for dystocia;		
8.	Clean the tools, equipment and	3.2 Management plan of delivery room and its		
	delivery room;	implementation method;		
9.	Store tools and equipment safely.	3.3 Basis for receiving delivery and treatment of		
		emergency;		
		3.4 Determine the specific process of delivery.		
		4.0 Essential Skills		
		4.1 Communication skills;		
		4.2 Practical coping skills;		
		4.3 Teamwork skills;		
		4.4 Report writing skills.		
DE	SCRIPTION OF THE END	The delivery room is managed in accordance with the		
PR	ODUCT / SERVICE	technical requirements and the key points of standardized		
		management of the delivery room.		
	RCUMSTANTIAL	Detailed knowledge about:		
KN	OWLEDGE	1. Safe operation methods of equipment and		
		instruments;		
		2. Key points of safe use of various drugs;		
		3. Occupational health and safety;		
		4. Operation strategy and steps of midwifery;		
		5. Disposal method of excrement and waste.		

OCCUPATION	LIVESTOCK VETERINARY	OCCUPATION			
	TECHNICIAN	CODE			
DUTY TITLE	PERFORM ANIMAL FEEDING	DUTY NO.	607		
	AND MANAGEMENT				
TASK TITLE	CARY OUT FEEDING AND	TASK NO.	6072		
	MANAGEMENT OF SUCKLING				
	YOUNG ANIMALS				
PERFORMANCE	The person performing this task mus		_		
CRITERIA	management of suckling young anima		ith the technical		
	requirements and animal characteristic				
RANGE	The task can be performed in the nurse	=	=		
STATEMENT	senior Livestock Veterinary Technician	n or an Zootechnicia	an. The tools and		
	equipment to be used include:				
	1. Nursing bed;				
	2. Crib;				
	3. Water dispenser;				
	4. Heating equipment (infrared lamp, resistance wire heater, gas heater, electric heating pad);				
	5. Lighting equipment;				
	6. Temperature controller;				
	7. Thermometer;				
	8. Dung removal equipment;				
	9. Disinfection drugs (alcohol, 2-5%	iodine, 0.1% bromo	ogeramine);		
	10. Immunization supplies (vaccines,	syringes);			
	11. Nutritional supplements (iron and selenium supplements, glucose, sodium bicarbonate, Vitamin C);				
	12. Young animals' incubator				
	13. Safety gear				
	and a second pour				
EVIDENCE REQUIREMENT					

EVIDENCE	REC	DUIR	EN	MENT
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PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE
The person performing this task must be	Detailed knowledge about:
able to do the following:	1.0 Methods
1. Observe the health and safety prevention measures;	The person performing this task must be able to explain how to:
2. Choose appropriate instruments;	1.1 Prepare the nursery;
3. Help young animals develop the habit of fixing nipples and eating colostrum;	1.2 Prepare feeding items;
g II min thing the same,	1.3 Develop the habit of fixing nipples;

Regulate the ambient temperature and 1.4 Adjust and control the temperature in the house; pay attention to cold and warmth; 1.5 Pay attention to immunization program; 5. Pay attention to prevention to prevent 1.6 Use nutritional supplements; young animals from being trampled; 1.7 Respond to emergencies. Vaccinate young animals according to immunization procedures; 7. Supplement nutrition according to the 2.0 Principle growth and development characteristics The person performing this task must be able to of young animals; explain the following principles: 8. Clean the nursery; 2.1 Principles to be followed in feeding and 9. Store equipment safely. management of suckling young animals. 3.0 Theories The person performing this task must be able to explain the following: 3.1 Implementation process of helping young animals form the habit of fixing nipples and eating colostrum; 3.2 Temperature control method in house; 3.3 Execution basis of immunization program; 3.4 Use of nutritional supplements. 4.0 Essential Skills 4.1 Communication skills; 4.2 Practical coping skills; 4.3 Teamwork skills; 4.4 Report writing skills. **DESCRIPTION OF THE END** Specialized feeding and management of young PRODUCT / SERVICE suckling animals is conducted in accordance with technical requirements and the characteristics of lactating young animals. CIRCUMSTANTIAL KNOWLEDGE **Detailed knowledge about:** Safe operation key points of equipment and instruments; 2. Rules of safe use of various drugs; 3. Occupational health and safety; Operation strategy and steps of feeding; 4. Disposal method of excrement and waste. 5.

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE		
DUTY TITLE	PERFORM ANIMAL FEEDING AND MANAGEMENT	DUTY NO.	607	
TASK TITLE	CARRY OUT FEEDING AND MANAGEMENT OF FATTENING PIGS	TASK NO.	6073	
PERFORMANCE CRITERIA	The person performing this task must feeding management and fattening of requirements and the characteristics of	pigs in accordance	•	
RANGE STATEMENT	The task can be performed in fattening livestock veterinary technicians or zoot to be used include: 1. Fattening column; 2. Crib; 3. Water dispenser; 4. Heating equipment (hot water heat 5. Lighting equipment; 6. Environmental control equipment controller, sprayer); 7. Thermometer; 8. Dung removal equipment; 9. Disinfection drugs (alcohol, 2-5% 10. Immunization supplies (vaccines, 11. Insect repellent products (ivermed 12. Nutritional supplements. 13. Safety gear	cing, warm air heating to (ventilation equipoidine, 0.1% bromosyringes);	as and equipment ag, flue heating); oment, humidity ogeramine);	

EVIDENCE REQUIREMENT

PR	ACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE	
The person performing this task must be		Detailed knowledge about:	
abl	e to do the following:	1.0 Methods	
1.	Observe the health and safety prevention measures;	The person performing this task must be able to explain how to:	
2.	Choose appropriate instruments;	1.1 Prepare the fattening house;	
3.	Make preparations before the group transfer;	1.2 Prepare feeding items;1.3 Judge the grouping basis;	
4.	Group scientifically according to the differences when entering the group;	The coupt and prosping subject	

5. Feed scientifically; 1.4 Regulate and control the environment in the house; 6. Regulate the temperature and humidity in the house; 1.5 Pay attention to deworming and immunization procedures; 7. Clean the equipment in time and clean up the hygiene of the barn; 1.6 Use nutritional supplements; 8. Carry out immunization according to 1.7 Respond to emergencies. the procedure; 9. Store tools and equipment safely. 2.0 Principle The person performing this task must be able to explain the following principles: 2.1 Nutritional principles followed in the process of feeding fattening pigs; 2.2 Characteristics of fattening pigs at different growth stages; 2.3 Principle of reasonable grouping. 3.0 Theories The person performing this task must be able to explain the following: 3.1 Characteristics of fattening pigs at different growth stages; 3.2 Feed formula for fattening pigs at different growth stages; 3.3 Use characteristics of nutritional supplements in different stages. 4.0 Essential Skills 4.1 Communication skills; 4.2 Practical coping skills; 4.3 Teamwork skills; 4.4 Report writing skills. **DESCRIPTION OF THE END** Feeding and management of fattening pigs is PRODUCT / SERVICE conducted in accordance with the technical requirements and the characteristics of fattening pig. CIRCUMSTANTIAL KNOWLEDGE **Detailed knowledge about:** 1. Commonly used equipment and instruments;

3.

Commonly used drugs;

Occupational health standard

4. Feeding operating strategies;
5. Disposal of excrement and waste.

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN	OCCUPATION CODE	
DUTY TITLE	CONDUCT ANIMAL FEEDING AND MANAGEMENT	DUTY NO.	607
TASK TITLE	CARRY OUT FEEDING AND MANAGEMENT OF LAYING CHICKEN	TASK NO.	6074
PERFORMANCE CRITERIA	The person performing this task must be able to carry out professional feeding and management of laying hen in accordance with the technical requirements and characteristics of laying chicken.		
RANGE STATEMENT	The task can be performed in the henho Livestock Veterinary Technician or equipment to be used include: 1. Laying hen coop; 2. Automatic feeder; 3. Automatic water dispenser; 4. Automatic manure cleaner; 5. Lighting equipment; 6. Automatic temperature control and 7. Illumination facilities; 8. Automatic egg collection equipme 9. Disinfection drugs (alcohol, 2-5% 10. Immunization supplies (vaccines, supplies to the products (albendary 12. Nutritional supplements. 13. Safety gear.	an Zootechnician. I ventilation equipm nt; iodine, 0.1% bromo syringes);	The tools and eent;

EVIDENCE REQUIREMENT

PRACTICAL PERFORMANCE	UNDERPINNING KNOWLEDGE	
The person performing this task must be	Detailed knowledge about:	
able to do the following:	1.0 Methods	
1. Observe the health and safety prevention measures;	The person performing this task must be able to explain how to:	
2. Choose appropriate items and tools;	1.1 Prepare the henhouse;	
3. Handle the brooding period;	1.2 Prepare feeding items;	
4. Do a good job in group transfer and eliminate sick and disabled chicken in time;	1.3 Prepare illumination procedures;1.4 Regulate and control the environment in the house;	

- 5. Do a good job in prenatal management;
- 6. Supplement light during the laying period;
- 7. Regulate the temperature and humidity in the house properly;
- Clean tools and equipment in time, clean the barn and keep it clean and dry;
- Carry out deworming and immunization according to procedures;
- 10. Store tools and equipment safely.

- 1.5 Pay attention to deworming and immunization procedures;
- 1.6 Use nutritional supplements;
- 1.7 Respond to emergencies.

The person performing this task must be able to explain the following principles:

- 2.1 Nutritional principles followed in the process of feeding laying hen;
- 2.2 Principle of reasonable grouping;
- 2.3 Characteristics of laying hens in different growth stages.

3.0 Theories

The person performing this task must be able to explain the following:

- 3.1 Feed formula for laying hen at different growth stages;
- 3.2 Use characteristics of nutritional supplements in different stages.

4.0 Essential Skills

- 4.1 Communication skills;
- 4.2 Practical coping skills;
- 4.3 Teamwork skills;
- 4.4 Report writing skills.

DESCRIPTION OF THE END PRODUCT / SERVICE

Feeding and management of laying chicken is carried out in accordance with technical requirements and the characteristics of laying chicken.

CIRCUMSTANTIAL KNOWLEDGE

- 1. Commonly used equipment and instruments;
- 2. Commonly used drugs;
- 3. Occupational health standard
- 4. Feeding operating strategies;
- 5. Disposal of excrement and waste.

OCCUPATION	LIVESTOCK VETERINARY TECHNICIAN		OCCUPATION CODE	
DUTY TITLE	PERFORM ANIMA AND MANAGEMEN		DUTY NO.	607
TASK TITLE	CONDUCT FEED MANAGEMENT C COWS	ING AND OF DAIRY	TASK NO.	6075
PERFORMANCE CRITERIA	The person performing this task must be able to carry out professional feeding and management of dairy cows in accordance with technical requirements and the characteristics of dairy cows at different stages.			
RANGE STATEMENT	requirements and the characteristics of dairy cows at different stages. The task can be performed in cattle farms under the supervision of middle and senior Livestock Veterinary Technicians or Zootechnician. The tools and equipment to be used include: 1. Neck yoke; 2. Bed for lying; 3. Feeding grains; 4. Drinking water equipment; 5. Environmental control equipment; 6. Sports fields; 7. Mating equipment (semen treatment equipment, estrus identification equipment, pregnancy examination equipment, obstetric examination equipment, midwifery equipment, obstetric treatment equipment); 8. Washing equipment; 9. Dung cleaning equipment; 10. Milking equipment; 11. Disinfection drugs (alcohol, 2-5% iodine, 0.1% bromogeramine);			
	syringes). EVIDENCE	REQUIREME	NT	
DDACTICAL DEDE				717
PRACTICAL PERF	UKMANUE	UNDERPINNING KNOWLEDGE		

The person performing this task must be able to do the following: 1. Observe the health and safety prevention measures; 2. Choose appropriate items and tools; 3. Prepare feed according to the feeding standard of dairy cows; 4. Divide dairy cows into groups; Detailed knowledge about: 1.0 Methods The person performing this task must be able to explain how to: 1.1 Prepare farm facilities used in the farm; 1.2 Prepare feeding items; 1.3 Standardize milking procedures;

- 5. Do well the work of preventing heat and lowering temperature, preventing cold and keeping warm;
- 6. Ensure daily exercise;
- 7. Follow the milking standard procedures strictly;
- 8. Clean tools and equipment in time, clean the barn and keep it clean and dry;
- 9. Carry out deworming and immunization according to procedures;
- 10. Store tools and equipment safely.

- 1.4 Regulate and control the environment in the field;
- 1.5 Pay attention to deworming and immunization procedures;
- 1.6 Respond to emergencies.

The person performing this task must be able to explain the following principles:

- 2.1 Nutritional principles followed in the process of feeding dairy cows;
- 2.2 Principle of reasonable grouping.

3.0 Theories

The person performing this task must be able to explain the following:

- 3.1 Characteristics of dairy cows at different growth stages;
- 3.2 Feed formula for dairy cows at different growth stages;
- 3.3 Use characteristics of nutritional supplements in different stages.

4.0 Essential Skills

- 4.1 Communication skills;
- 4.2 Practical coping skills;
- 4.3 Teamwork skills;
- 4.4 Report writing skills.

DESCRIPTION OF THE END PRODUCT / SERVICE

Feeding and management of dairy cows is conducted in accordance with the technical requirements and characteristics of dairy cows.

CIRCUMSTANTIAL KNOWLEDGE

- 1. Commonly used equipment and instruments;
- 2. Commonly used drugs;
- 3. Occupational health standard;
- 4. Feeding operating strategies;
- 5. Disposal of excrement and waste.

APPENDIX: LIVESTOCK VETERINARY TECHNICIAN DACUM TABLE -NTA LEVEL

DUTIES	TASKS	ENABLERS	
		· Disposable syringe	
		· Mask	
		· Disposable latex gloves	
		· Protective clothing	
		· Platform scales or weighing scales	
		· Veterinary blood collectors	
		· Electrothermostat	
		· Benchtop low-speed centrifuge	
		· Pipette	
		· 96-well plate	
		· ELIASA	
		· Tray balance	
		· Oscillator	
		 Mask and disposable latex glove 	
		· Protective clothing	
		· Refrigerator	
		Materials	
		• Standard antigenic substances	
		• Standard positive sera	
		• Standard positive sera	
		· Anticoagulants	
		· Antibody detect kit	
		· Deionized water	
		Requirements for employees	
		· Teamwork	
		· Scientific spirit	
		· Carefulness and preciseness	
		· Time management	
2.0 Perform	2.1 Carry out collection	General skills and knowledge	
collection and	and preservation of	· Select suitable pathological samples for	
delivery of	pathological tissue	different diseases	
pathological tissue samples	samples.	· Pathological anatomy of poultry	
dissue samples	2.2 Carry out collection	· Pathological anatomy of pigs	
	and preservation of	· Pathological anatomy of ruminants	

DUTIES	TASKS	ENABLERS
	pathogen analysis	· Preparation of fixation fluid for
	samples.	pathological samples.
	2.3 Conduct transportation of	 Clean of disinfection tools, equipment and workplaces
	samples.	· Preparation of liquid
		· Collection of animal blood
		· Serum separation
		· Use of autoclave
		Disinfection and clean of anatomical instruments
		Tools and equipment
		· Sterilized scalpel
		· Sterilized surgical scissors
		· Sterilized tweezers
		• Sterilized glass bottle, capped centrifuge tube, plate
		· Autoclave
		· Refrigerator, freezer
		· Alcohol lamp
		· Syringe
		· Mask and disposable latex glove
		· Protective clothing
		· Protective mask
		Materials
		· Anticoagulants
		· Phosphate buffer
		· Hank's solution
		· Formalin solution
		Requirements for employees
		· Teamwork
		· Scientific spirit
		· Carefulness and preciseness
		· Time management
	3.1 Carry out	General skills and knowledge
	examination of worm	

DUTIES	TASKS	ENABLERS
3.0 Conduct parasite examination	eggs, larvae and coccidia oocysts in feces. 3.2 Perform examination of parasites in scraped objects of skin. 3.3 Carry out examination of parasite in organs and tissues. 3.4 Perform examination of protozoon and worm larvae in blood.	 Collection of appropriate case samples for different diseases Operating procedure of parasite detection Skills and knowledge in laboratory examination of parasites Identification of parasite map Use of microscope, centrifuge, incubator and other instruments and equipment Animal Parasitology Tools and equipment Saline Saturated brine Anticoagulants 10% NaOH Cedar oil Disinfectant Materials Disposable latex gloves, masks, hats, experimental clothes and other personal protective equipment Microscope, centrifuge, constant temperature incubator, pipette balance, etc. Blood collector, blade, beaker, pipette tip, glass slide, centrifuge tube and other consumables Requirements for employees Teamwork Scientific spirit Carefulness and preciseness Time management
	4.1 Carry out the blood	General skills and knowledge
	routine examination.	

DUTIES	TASKS	ENABLERS
4.0 Perform clinical		 Collection of appropriate pathological material samples for different diseases
validation		 Operating procedure of blood routine, urine and fecal clinical examination
	4.2 Carry out urine	· Skills and knowledge of blood routine,
	routine examination.	urine, feces and biochemical examination
		 Interpretation of indicator of blood routine, urine, feces and biochemical examination
	4.3 Conduct feces routine examination.	 Use of microscope, hematology analyzer, biochemical analyzer and other instruments and equipment
		· Zoonomy
	4.4 Carry out biochemical	Animal clinical diagnostics
	examination.	Tools and equipment
		· Personal protective equipment such as gloves, hats and experimental clothes
		 Microscope, hematology analyzer, biochemical analyzer, urine analyzer, centrifuge, pipette and other equipment
		· Glass slide, centrifuge tube, glass rod, pipette tip and other consumables
		Materials
		· Alcohol
		· Saline
		· Anticoagulants
		· Preservative
		· Wright Stain
		· Giemsa stain
		· Benzidine
		· Disinfectant
		Requirements for employees
		· Teamwork
		· Scientific spirit
		· Carefulness and preciseness

DUTIES	TASKS	ENABLERS
		· Time management
5.0 Conduct necropsy	 5.1 Perform standard necropsy of livestock and poultry carcasses. 5.2 Carry out identification of livestock and poultry organ lesions. 5.3 Perform identification of animal epidemic diseases by observing typical lesions. 5.4 Issue necropsy report of livestock and poultry carcasses. 	General skills and knowledge Communication skills Knowledge of livestock and poultry anatomy Zoophysiology Biosafety protection Skills and knowledge of collection, packaging and inspection of pathological material Medical history investigation skills Skills of observation, description and recording of lesions Changes of animal carcasses after death Skills of making pathological tissue sections Lesion identification and analysis skills Skill of treating corpse in a harmless way Disinfection methods and skills Preparation and use of medicament Tools and equipment Work clothes, aprons, rubber gloves, rubber shoes, safety helmets, masks, goggles and other personal protective equipment Knives, scissors, tweezers, bone saws, axes, sharpening sticks, grindstones and other necropsy tools Slicing machine Microscope Refrigerator Camera Computer
		· Carcass of disease livestock and poultry

 6.1 Carry out post-slaughter quarantine and treatment of cattle. 6.2 Carry out post-slaughter quarantine and treatment of sheep. 6.3 Carry out post-slaughter quarantine and treatment of pigs. 6.4 Carry out post-slaughter quarantine and treatment of poultry. 6.5 Carry out post-slaughter quarantine and treatment of and treatment of poultry. 	 Pathological sections such as fixation fluid, dehydration agent, transparency agent and staining solution Disinfectant Requirements for employees Teamwork Scientific spirit Carefulness and preciseness Time management General skills and knowledge Communication skills Knowledge of livestock and poultry anatomy Zoophysiology Administrative regulations on animal husbandry and veterinary medicine Identification skills of characteristic lesions of animal infectious diseases and parasitic diseases Animal epidemic prevention and quarantine Biosafety protection Disinfection methods and skills Selection of lymph nodes and observation skills of common lesions Post-mortem inspection procedures and checkpoint setting
slaughter quarantine	
	slaughter quarantine and treatment of cattle. 6.2 Carry out post-slaughter quarantine and treatment of sheep. 6.3 Carry out post-slaughter quarantine and treatment of pigs. 6.4 Carry out post-slaughter quarantine and treatment of poultry. 6.5 Carry out post-slaughter quarantine and treatment of and treatment of poultry.

DUTIES	TASKS	ENABLERS
		goggles and other personal protective equipment
		 Quarantine knives, sharp knife for bone removal, quarantine hooks, sharpening sticks and other quarantine tools
		· Microscope
		· Elbow scissors
		· Glass slide
		· Tissue triturator
		· Copper screen, nylon screen
		· Magnetic heating stirrer
		· Separating funnel, conical flask, beaker
		Materials
		 Livestock and poultry to be inspected after slaughter
		· Disinfectant
		 Trichinella spiralis meat inspection reagents such as hydrochloric acid solution, pepsin solution and glycerol solution
		Requirements for employees
		· Teamwork
		· Scientific spirit
		· Carefulness and preciseness
		· Time management
7.0 Perform	7.1 Conduct	General skills and knowledge
animal feeding	management of	· Correct delivery
and	delivery room. 7.2 Carry out feeding	Deal with emergencies such as dystocia
management	and management of suckling young animals. 7.3 Carry out feeding and management of fattening pigs.	· Nursing care of newborn piglets
		· Vaccination of young animals
		Nutritional supplement for young animals
		· Transfer group correctly
		· Scientific feeding
		House environment control

DUTIES	TASKS	ENABLERS
DUTIES	 7.4 Carry out feeding and management of laying chicken. 7.5 Carry out feeding and management of dairy cows. 	 ENABLERS Execution of illumination program correctly Preparation of complete feed Guarantee of daily exercise time Heatstroke prevention, cold protection and warmth Standardized milking Cleaning tools and barn hygiene Tools and equipment
		· Buckets, basins, gauze, scissors, cotton balls, scalpels and other delivery supplies
		Lighting equipmentHeating equipment
		• Tooth cutting and tail cutting tools
		· Nursing bed
		· Complete set of feeding equipment
		· Environmental control equipment
		· Young animals' incubator
		Automatic egg collection equipment
		· Mating equipment
		· Milking equipment
		· Cleaning and dung removal equipment
		· Immunization supplies
		Materials
		· Disinfection drug
		· Delivery drugs
		· Vaccine
		· Deworming drugs
		· Nutritional supplement
		Requirements for employees
		· Teamwork
		· Scientific spirit
		· Carefulness and preciseness
		· Time management