

National Occupational Skill Standard (NOSS)

Occupational Title : Goat Keeper

Level : 1

Sector : Agriculture

Sub - Sector : Livestock

NOSS ID/NSCO ID :

ISCO NO :



Council for Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madhyapur Thimi-17, Sanathimi, Bhaktapur, Nepal

Developed: 31-01-2021 (18-10-2077)



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Recommended by Agriculture Technical Sub Committee: 31 January 2021 (18 Magh 2077)



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1	Occupational Title: Goat Keeper Level: 1
2	Job Description: Goat Keeper, L-1 constructs goat shed using locally available materials, rear goats on the farm and prepare goat breeding activities.
3	UNITS OF COMPETENCY: <ol style="list-style-type: none"> 1. Construct goat shed using locally available materials. 2. Rear goats on farm. 3. Perform preparatory works for goat breeding management. 4. Perform communication. 5. Develop professionalism. <p><i>*Note: Units 4 and 5 are not for testing purpose.</i></p>
4	Qualifying Notes/Prerequisites: <ul style="list-style-type: none"> • Physical Requirements: Sound health • Entry Requirements: As per NSTB rules. Additional Information: <ul style="list-style-type: none"> • Assessment Types: Performance test only. • Assessment Duration: 4 to 6 Hours (All Competency Only) • Recommended Group Size: 6 to 8 candidates



5	Unit No: 1 Unit Title: Construct goat shed using locally available materials.	Unit code:
	Elements of competency	Performance standards
	1.1 Prepare tools, equipment and materials	1.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 1.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 1.1.3 Locally available materials collected and prepared in accordance with task requirements.
	1.2 Build shed	1.2.1 Suitable area selected for goat farming. 1.2.2 Area marked for shed construction in accordance with layout drawing. 1.2.3 Goat shed built with close and open paddocks as per the standard specifications . 1.2.4 Separate partitions created for goat based on physiological stages . 1.2.5 Feeding trough and drinker placed in accordance with layout drawing. 1.2.6 Open area secured by fence.
	1.3 Clean goat shed	1.3.1 Goat shed cleaned, disinfected and waste disposed in disposal area in accordance with 3R's principle . 1.3.2 Record maintained and status of tools and equipment reported.
6	Task Performance Requirements (Tools, Equipment and Materials): <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, bamboo, timber, plank, <i>Nigalo</i>, rope, hammer, thatching materials, nail, screw, screw driver, shovel, pick, spade, knife, sickle, hacksaw, water, bucket, drum, step ladder, foot bath, disinfectant, lime, sprayer, soap, detergent, phenyl, broom, dust pan, dust bin, toolbox, first aid kit and personal protective equipment (PPE). 	



7	<p>Safety and Hygiene (Occupational Health and Safety):</p> <ul style="list-style-type: none"> • Use personal protective equipment. • Safe handling of materials, tools and equipment. • Safe handling of debris.
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8	Required Knowledge		
	Technical Knowledge	Applied Calculation	Graphical Information
	<ul style="list-style-type: none"> Tools and equipment: <ul style="list-style-type: none"> Types Uses Safe handling Introduction of goat farming Importance and scope of goat farming Indigenous and exotic goat breeds reared in Nepal Goat Shed <ul style="list-style-type: none"> Introduction Importance Types of shed Suitable land for goat farming Standard specifications Construction process Housing facilities Bio security measures and activities Waste management Occupational health and safety rules and regulations Use and importance of first aid kit 	<ul style="list-style-type: none"> Convert imperial unit to metric unit and vice versa 	<ul style="list-style-type: none"> Read and interpret layout diagram Read and interpret standard specification



9	Assessment of Competency						
	Unit: 1 Unit Title: Construct goat shed using locally available resources						
	Candidate Details			Assessors Detail			
	Candidate's Name: Registration Number: Symbol No: Test Centre:			Assessors' Name 1. 2. 3.		ID/License No:	
Element of competency		Performance Standards		Standard Met	Standard Not Met	Evidence Type	Comments
1.1 Prepare tools, equipment and materials		1.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 1.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 1.1.3 Locally available materials collected and prepared in accordance with task requirements.					
1.2 Build shed		1.2.1 Suitable area selected for goat farming. 1.2.2 Area marked for shed construction in accordance with layout drawing. 1.2.3 Goat shed built with close and open paddocks as per the standard specifications . 1.2.4 Separate partitions created for goat based on physiological stages . 1.2.5 Feeding trough and drinker placed in accordance with layout drawing. 1.2.6 Open area secured by fence.					



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1.3 Clean goat shed	1.3.1 Goat shed cleaned, disinfected and waste disposed in disposal area in accordance with 3R's principle .				
	1.3.2 Record maintained and status of tools and equipment reported.				

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

CS – Case Study



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Range Statement

Variable	Range
Personal protective equipment	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes
Locally available materials	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Bamboo • Planks • Timber • Nigalo • Thatching materials: rice straw, wheat straw, Napier, khar
Suitable area	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Regular supply of water and electricity • Space to grow grass, crops and plants • Away from residential and industrial area • Non water logging area
Standard specification	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Height • Ventilation • Elevated floors • Wooden floors



	<ul style="list-style-type: none"> • Roof • Geographical orientation of shed
Physiological stages	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Kids • Buck • Doe • Pregnant • Lactating • Sick
3R's principle	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle



5	Unit No: 2 Unit Title: Rear goats on farm	Unit code:
	Elements of competency	Performance standards
	2.1 Prepare goat shed and farm land	2.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 2.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 2.1.3 Materials collected and prepared in accordance with task requirements. 2.1.4 Goat shed cleaned and disinfected in accordance with standard practices . 2.1.5 Feeding trough and drinkers cleaned, sanitized and potable water provided ad-lib. 2.1.6 Ventilation, temperature and lighting maintained in accordance with technical requirement. 2.1.7 Fodder/Forage planted on the farm land. 2.1.8 Goats tagged and placed on shed.
	2.2 Perform husbandry practices	2.2.1 Special care provided to new born kids. 2.2.2 Kids weaned at the age of 2-3 months. 2.2.3 Male kids castrated at the age of 2-4 months. 2.2.4 Hoof trimmed without injuries and bleeding.
	2.3 Feed goats	2.3.1 Fodder/forage harvested, stored and prepared for feeding. 2.3.2 Concentrate feed prepared using locally available ingredients . 2.3.3 Quality feed provided according to body weight and physiological stages . 2.3.4 Feed supplements provided as per recommendation.
	2.4 Provide routine health care	2.4.1 Sick goat identified based on behavior, signs and symptoms and kept in separate shed. 2.4.2 Goat restrained in humane manner. 2.4.3 First aid treatment provided to goat with external injuries. 2.4.4 Temperature measured, recorded and reported to concerned authority. 2.4.5 Drug administered by appropriate route in recommended dose.



		<p>2.4.6 Deworming performed in schedule by recommended methods.</p> <p>2.4.7 Goat vaccinated as per vaccination schedule.</p> <p>2.4.8 Goat behaviors observed for side effects after medication/vaccination and reported to concerned authority.</p> <p>2.4.9 Record maintained for treatment, deworming and vaccination.</p>
	2.5 Clean goat shed	<p>2.5.1 Materials used in medication and vaccination disposed safely.</p> <p>2.5.2 Goat manure and waste materials removed from shed on regular basis.</p> <p>2.5.3 Goat shed disinfected and waste disposed in accordance with 3R's principle.</p> <p>2.5.4 Record maintained and status of tools and equipment reported.</p>
6	Task Performance Requirements (Tools, Equipment and Materials): <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, syringe, needle, rope, tag, tagging machine, net feeder, grass chopper, feed, vitamin, minerals, water, thermometer, drenching gun, castrator, nipple drinker, hoof trimmer, disinfectant, sprayer, broom, dust pan, dust bin, turpentine oil, drug, vaccine, foot bath, cool box, soap, detergent, phenyl, lime, first aid kit (cotton, gauge, bandage, forceps, scissors, antiseptic, BP handle and blade, surgical tape, Potassium permanganate) and personal protective equipment (PPE). 	
7	Safety and Hygiene (Occupational Health and Safety): <ul style="list-style-type: none"> Use personal protective equipment. Safe handling of materials, tools and equipment. Take precautions while handling vaccine. Safe handling of debris. 	



8	Required Knowledge		
	Technical Knowledge	Applied Calculation	Graphical Information
	<ul style="list-style-type: none"> Tools and equipment: <ul style="list-style-type: none"> Types Uses Safe handling Introduction of goat farming Importance and scope of goat farming Indigenous and exotic goat breeds reared in Nepal Goat shed and farm land preparation Selection of goat Types of fodder and forage Plantation, cutting and storage of fodder and forage Methods of feeding Feed processing <ul style="list-style-type: none"> Wilting Drying Chopping Soaking Ensiling 	<ul style="list-style-type: none"> Convert imperial unit to metric unit and vice versa 	<ul style="list-style-type: none"> Read and interpret vaccination and deworming schedule



	<ul style="list-style-type: none"> • Feed quality • Importance of nutrients • Nutritional requirement according to physiological stages • Common goat diseases • Behavior, signs and symptoms of sick goats • Characteristics of healthy goats • First aid treatment • Importance of vaccination • Vaccination schedule • Feed supplements • Types of worms • Deworming techniques • Farm bio security measures and activities • Waste management • Occupational health and safety rules and regulations 		
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9	Assessment of Competency						
	Unit: 2 Unit Title: Rear goats on farm						
	Candidate Details			Assessors Detail			
	Candidate's Name: Registration Number: Symbol No: Test Centre:			Assessors' Name 1. 2. 3.		ID/License No:	
Element of competency		Performance Standards		Standard Met	Standard Not Met	Evidence Type	Comments
2.1 Prepare goat shed and farm land		2.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 2.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 2.1.3 Materials collected and prepared in accordance with task requirements. 2.1.4 Goat shed cleaned and disinfected in accordance with standard practices . 2.1.5 Feeding trough and drinkers cleaned, sanitized and potable water provided ad-lib. 2.1.6 Ventilation, temperature and lighting maintained in accordance with technical requirement. 2.1.7 Fodder/Forage planted on the farm land. 2.1.8 Goats tagged and placed on shed.					



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2.2 Perform husbandry practices	<p>2.2.1 Special care provided to new born kids.</p> <p>2.2.2 Kids weaned at the age of 2-3 months.</p> <p>2.2.3 Male kids castrated at the age of 2-4 months.</p> <p>2.2.4 Hoof trimmed without injuries and bleeding.</p>				
2.3 Feed goats	<p>2.3.1 Fodder/forage harvested, stored and prepared for feeding.</p> <p>2.3.2 Concentrate feed prepared using locally available ingredients.</p> <p>2.3.3 Quality feed provided according to body weight and physiological stages.</p> <p>2.3.4 Feed supplements provided as per recommendation.</p>				
2.4 Provide routine health care	<p>2.4.1 Sick goat identified based on behavior, signs and symptoms and kept in separate shed.</p> <p>2.4.2 Goat restrained in humane manner.</p> <p>2.4.3 First aid treatment provided to goat with external injuries.</p> <p>2.4.4 Temperature measured, recorded and reported to concerned authority.</p> <p>2.4.5 Drug administered by appropriate route in recommended dose.</p> <p>2.4.6 Deworming performed in schedule by recommended methods.</p> <p>2.4.7 Goat vaccinated as per vaccination schedule.</p> <p>2.4.8 Goat behaviors observed for side effects after medication/vaccination and reported to concerned authority.</p> <p>2.4.9 Record maintained for treatment, deworming and vaccination.</p>				
2.5 Clean goat shed	<p>2.5.1 Materials used in medication and vaccination disposed safely.</p> <p>2.5.2 Goat manure and waste materials removed from shed on regular basis.</p> <p>2.5.3 Goat shed disinfected and waste disposed in accordance with 3R's principle.</p> <p>2.5.4 Record maintained and status of tools and equipment reported.</p>				



WT- Written Test

OQ- Oral Question

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Range Statement

Variable	Range
Personal protective equipment	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes
Standard practices	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Liming • Spraying • Foot bath
Fodder/Forage	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Legume • Non legume • Annual • Perennial
Special care	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Navel treatment • Additional heat • Colostrum feeding • Creep feeding/weaning • Feeding orphan kids



Locally available ingredients	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Maize • Rice bran • Rice polish • Oil cake • Soyabean • Wheat bran
Quality feed	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Free from mould and fungus • Free from foreign particles • Free from off flavour • Free from abnormal texture
Physiological stages	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Kids • Buck • Doe • Pregnant • Lactating • Sick
Feed supplements	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Vitamin • Minerals



Behavior, signs and symptoms	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Fever • Reduced feed intake • Abnormal breathing • Abnormal gait • Tremor and excitement • Abnormal discharges
First aid treatment	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Dressing • Bandaging • Splint • Bleeding control
Appropriate route	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Topical • Oral • Intra-muscular • Sub cutaneous
Deworming	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Ectoparasites control: Ticks, Mites, Lice and Fleas • Endoparasites control: Roundworm, Tapeworm



Recommended methods	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Oral • Dipping • Sub cutaneous injection • Spray • Local application
Materials	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Vials • Bottles • Containers • Strips • Syringe and needle • Sachet • Cotton • Gauge • Bandage • Gloves
3R's principle	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle



5	Unit No: 3 Unit Title: Perform preparatory works for goat breeding management	Unit code:
	Elements of competency	Performance standards
	3.1 Prepare breeding shed	3.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 3.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 3.1.3 Materials collected and prepared in accordance with task requirements. 3.1.4 Breeding shed cleaned and disinfected. 3.1.5 Feeding trough filled with potable water ad-lib. 3.1.6 Quality feed provided according to body weight and physiological stages .
	3.2 Rear breeding male and female	3.2.1 Male and female goats reared separately after 4 to 5 months. 3.2.2 Breeding male and female selected according to physical characteristics . 3.2.3 Breeding buck reared in the ratio of 1:30 female. 3.2.4 Pregnant doe segregated before 15 to 30 days of parturition. 3.2.5 Lactating doe kept separately. 3.2.6 Additional ration provided according to physiological stages.
	3.3 Perform husbandry practices	3.3.1 Deworming performed in schedule by recommended methods . 3.3.2 Goat vaccinated as per vaccination schedule. 3.3.3 Male goats except breeding buck castrated without injuries and excessive bleeding. 3.3.4 Hoof trimmed without injuries and excessive bleeding. 3.3.5 Heat detected by external signs and behavior . 3.3.6 Doe in heat mated within 12 to 24 hours.
	3.4 Clean goat breeding shed	3.4.1 Materials used in medication and vaccination disposed safely. 3.4.2 Goat manure and waste materials removed from shed on regular basis. 3.4.3 Goat shed disinfected and waste disposed in accordance with 3R's principle . 3.4.4 Tools and equipment cleaned, stored and record maintained.



6	<p>Task Performance Requirements (Tools, Equipment and Materials):</p> <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, rope, net feeder, grass chopper, feed, vitamin, minerals, water, drenching gun, castrator, nipple drinker, hoof trimmer, disinfectant, sprayer, broom, dust pan, dust bin, turpentine oil, drug, vaccine, foot bath, cool box, soap, detergent, phenyl, lime, first aid kit (cotton, gauge, bandage, forceps, scissors, antiseptic, BP handle and blade, surgical tape, Potassium permanganate) and personal protective equipment (PPE).
7	<p>Safety and Hygiene (Occupational Health and Safety):</p> <ul style="list-style-type: none"> Use personal protective equipment. Safe handling of materials, tools and equipment. Take precautions while handling vaccine. Safe handling of debris.



8	Required Knowledge		
	Technical Knowledge	Applied Calculation	Graphical Information
	<ul style="list-style-type: none"> Tools and equipment: <ul style="list-style-type: none"> Types Uses Safe handling Importance of goat selection Selection criteria for breeding male and female Preparation of breeding shed Pregnant doe management Management of new born kids Quality feed Feeding method and process Nutritional requirement according to physiological stages Castration of male goat Types of castrator Common signs of heat Inbreeding and its negative impact Common reproductive disorder Gestation period 	<ul style="list-style-type: none"> Convert imperial unit to metric unit and vice versa 	<p>Read and interpret vaccination and deworming schedule</p>



	<ul style="list-style-type: none"> • Types of worm • Deworming techniques • Importance of vaccination • Vaccination schedule • Feed supplements • Waste management • Occupation health and safety rules and regulations • Use and importance of first aid kit 		
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9	Assessment of Competency						
	Unit: 3 Unit Title: Perform preparatory works for goat breeding management						
	Candidate Details			Assessors Detail			
	Candidate's Name: Registration Number: Symbol No: Test Centre:			Assessors' Name 1. 2. 3.		ID/License No:	
Element of competency		Performance Standards		Standard Met	Standard Not Met	Evidence Type	Comments
3.1 Prepare breeding shed		3.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 3.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 3.1.3 Materials collected and prepared in accordance with task requirements. 3.1.4 Breeding shed cleaned and disinfected. 3.1.5 Feeding trough filled with potable water ad-lib. 3.1.6 Quality feed provided according to body weight and physiological stages .					
3.2 Rear breeding male and female		3.2.1 Male and female goats reared separately after 4 to 5 months. 3.2.2 Breeding male and female selected according to physical characteristics . 3.2.3 Breeding buck reared in the ratio of 1:30 female. 3.2.4 Pregnant doe segregated before 15 to 30 days of parturition. 3.2.5 Lactating doe kept separately. 3.2.6 Additional ration provided according to physiological stages.					



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3.3 Perform husbandry practices	3.3.1 Deworming performed in schedule by recommended methods . 3.3.2 Goat vaccinated as per vaccination schedule. 3.3.3 Male goats except breeding buck castrated without injuries and excessive bleeding. 3.3.4 Hoof trimmed without injuries and excessive bleeding. 3.3.5 Heat detected by external signs and behavior . 3.3.1 Doe in heat mated within 12 to 24 hours.				
3.4 Clean goat breeding shed	3.4.1 Goat manure and waste materials removed from shed on regular basis. 3.4.2 Goat shed disinfected and waste disposed in accordance with 3R's principle . 3.4.3 Tools and equipment cleaned, stored and record maintained.				

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

CS – Case Study



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Range Statement

Variable	Range
Personal protective equipment	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes
Quality feed	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Free from mould and fungus • Free from foreign particles • Free from off flavour • Free from abnormal texture
Physiological stages	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Kids • Buck • Doe • Pregnant • Lactating • Sick
Physical characteristics	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Strong • Healthy • Active



	<ul style="list-style-type: none"> • No supernumerary and inverted teats • Normal sex organs • Typical breed characters
Additional ration	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Breeding • Steaming-up • Flushing • Lactating
Deworming	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Ectoparasites control: Ticks, Mites, Lice and Fleas • Endoparasites control: Roundworm, Tapeworm
Recommended methods	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Oral • Dipping • Sub cutaneous injection • Spray • Local application
Signs and behavior	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Restlessness • Red and swollen vulva • Frequent micturition • Mucus discharge from vulva • Mounting on other animals • Bleating



Materials	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Vials • Bottles • Containers • Strips • Syringe and needle • Sachet • Cotton • Gauge • Bandage • Gloves
3R's principle	<p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle

