

Model Curriculum

Goat Farmer

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: ANIMAL HUSBANDRY
OCCUPATION: SMALL RUMINANTS & OTHERS
REF ID: AGR/Q4501, V1.0
NSQF LEVEL: 4



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

AGRICULTURE SKILL COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/Qualification Pack: '**Goat Farmer**' QP No. '**AGR/Q4501 NSQF Level 4**'

Date of Issuance: February 20th, 2017

Valid up to: March 31st, 2020

* Valid up to the next review date of the Qualification Pack



Authorised Signatory
(Agriculture Skill Council of India)

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Goat Farmer

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Goat Farmer”, in the “Agriculture & Allied” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Goat Farmer		
Qualification Pack Name & Reference ID. ID	AGR/Q4501, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	5 th standard pass, preferably		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Construct & maintain goat farm: selection of land for goat shed, maintenance of goat shed, raising of goat feed • Procure & rear goat using good animal husbandry practices: selection of good breeds and appropriate feed, routine care and ensuring good health of goats, common diseases and their prevention etc • Undertake breeding of goats: selection of method- artificial insemination or natural breeding, selection of breeds (exotic/local/crossbreeds) with required characteristics, adherence to good husbandry practices • Undertake basic entrepreneurial activities for small goat farm unit: arrangement of finance, pooling of resources, market linkages etc • Practice health & safety at the work place: Well versed with health and safety measures in terms of personal as well as others’ safety. 		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Goat Farmer” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module</p>	<ul style="list-style-type: none"> Understand General Discipline in the class room (Do’s & Don’ts) Study the Scope & importance of Goat farming in India Understand the profitability associated with goat farm unit Understand the Role of a ‘Goat Farmer’ 	Laptop, white board, marker, projector
2	<p>Construct & maintain goat farm</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 20:00</p> <p>Corresponding NOS Code AGR / N4507</p>	<ul style="list-style-type: none"> Identify appropriate site for goat farm construct goat sheds with close and open paddocks as per standard specifications maintain & clean goat sheds cultivate the crop (rich in protein & nitrogen) for goat feed on the land designated on goat farm, using standard agricultural practices Comply with the occupational health & safety requirements relevant to work 	Laptop, white board, marker, projector, Audio-visual aids, White Marker, disinfectants, basic cultivation tools & equipments, chaff cutter
3	<p>Procure & rear goats on the farm using good animal husbandry practices</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code AGR/N4508</p>	<ul style="list-style-type: none"> Identify & procure good breed goats Undertake proper marking & tagging of goats Undertake dehorning & hoof trimming of goats Ensure proper feed (green fodder, concentrates, supplements etc) for the goats in consultation to veterinarian or animal health specialist depending upon their growth stages/ conditions- pregnant goats, young ones, sick goats and male goats, Maintain good health of the goats Identify different disease & pest infestation & undertake preventive and curative measures Carry out deworming and vaccination at regular intervals or as needed separately for kids, female goats, sick goats Segregate sick animals from healthy ones 	Laptop, white board, marker, projector, Audio-visual aids, ropes, hoof cutter, shearer, Markers, tattooing set, ear tags, ear tagging punch, ear notching punch, clippers, dehorner, disbudding box, healing ointment, disinfectants,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Provide routine care & ensure proper hygiene at the goat shed • Get acquainted with various body parts of goats on which vital rates are recorded and instruments used • Record any anomalies and the treatment/ measures taken • Undertake safe work practices while rearing & managing litters for breeding 	
4	<p>Carry out breeding procedures of goat</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 35:00</p> <p>Corresponding NOS Code AGR/N4509</p>	<ul style="list-style-type: none"> • Identify reliable source for procurement & undertake health & fertility examinations of the selected litters with local veterinary practitioner • assess the health and behaviour of the potential breeding goats to confirm their suitability for breeding • check the biological compatibility of buck and the doe/does, based on the goat breed • arrange separate pens for breeding goats & ensure proper dwelling condition • understand cross breeding techniques of exotic and indigenous breeds • select appropriate method of breeding: natural breeding or Artificial Insemination • monitor & record the activities of the animals in pens • harvest the goat produce (Milk; goat manure; meat; goat fibre; etc.) using standard harvesting procedures • dispose-off waste in line with environmental health & safety guidelines 	Laptop, white board, marker, projector, Audio-visual aids, shearer,
5	<p>Undertake basic entrepreneurial activities for small enterprise</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 15:00</p>	<ul style="list-style-type: none"> • Assess demand & supply of goat products in the market • Seek information regarding subsidies/loan available through govt institutions • Avail loan from the financial institutions • Identify & develop appropriate marketing channels • Track prices prevailing in the market and formulate competitive pricing mechanism 	Laptop, white board, marker, projector, Audio-visual aids, pen, paper

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Corresponding NOS Code AGR/N9908	<ul style="list-style-type: none"> Maintain book of accounts Calculate B:C ratio Comply with relevant regulations in marketing & sale of the produce 	
6	Maintain Health & Safety at the work place Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/N9903	<ul style="list-style-type: none"> Maintain a clean & efficient workplace Render appropriate emergency procedures On Time Reporting to appropriate person. Practice General safety and first aid 	Laptop, white board, marker, projector, , Personal protective equipment Like: Helmet / head gear, rubber gloves, Safety boots, First Aid Kit Bandages, Adhesive bandages, Betadine Solution / ointment, Pain relief spray / ointment, Antiseptic liquid; Phone directory, Search lights, fire extinguisher
7	Soft Skills/ Computer Literacy/ Financial Literacy Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code	<ul style="list-style-type: none"> Basic Communication Skills Basic Computer Skills Various types of documents and their uses- Birth certificate, 10th Certificate, Ration Card, Voter Id Card, Aadhar Card, PAN card, Driving License, Bank Pass Book Various types of loan/credit available (relevant to the trainees' requirement) and the process to avail the same 	Computer, Audio-visual aids, Projector
	Total Duration: Theory Duration (hh:mm) 85:00 Practical Duration (hh:mm) 135:00	Unique Equipment Required: Laptop, white board, marker, projector, Audio-visual aids, hoof cutter, shearer, Markers, ear tags, iron rod, clippers, disbudding box, healing ointment, disinfectants,	

Grand Total Course Duration: **220 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Agriculture Skill Council of India](#))

Trainer Prerequisites for Job role: “Goat Farmer” mapped to Qualification Pack: “AGR/Q4501, v1.0”

Sr. No.	Area	Details
1	Description	Trainer is responsible for educating the trainees –constructing goat shed, rearing goats, breeding of goats, harvesting of goat products and marketing them using appropriate marketing practices
2	Personal Attributes	Trainer should be Subject Matter Expert. S/he should have a presence of mind, compassion for animals, good communication, leadership, observation and practical oriented skills.
3	Minimum Educational Qualifications	Diploma in Veterinary Science or relevant field (BVSc Preferable)
4a	Domain Certification	Certified for Job Role: “Goat Farmer” mapped to QP: “AGR/Q4501 v1.0”. Minimum accepted score is 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/Q1402”. Minimum accepted % as per respective SSC guidelines is 70%.
5	Experience	<ul style="list-style-type: none"> • MVSc with 1 Year experience, • BVSc with 3 Years of experience, • Diploma in Veterinary Science with relevant experience of 5 Years

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Goat Farmer
Qualification Pack	AGR/Q4501, v1.0
Sector Skill Council	Agriculture

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre(as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate
6	In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Skills Practical
AGR/N4507 Construct and maintain the goat farm	PC1. use appropriate personal protective equipment prior to carrying out the work in line with relevant occupational health & safety guidelines	100	6	3	3
	PC2. assess potential risks related to work and implement relevant safety measures where applicable		5	3	2
	PC3. exercise safe working practices while dealing with sharp tools and construction accessories		5	2	3
	PC4. follow relevant electrical safety practices whenever required		6	3	3
	PC5. select a suitable area for rearing of goats		8	6	2
	PC6. mark the area suitable for shed construction		5	3	2
	PC7. collect necessary material for construction of sheds		5	4	1
	PC8. construct goat sheds with close and open paddocks		9	3	6
	PC9. build drainage channels in the sheds to prevent water logging		7	3	4
	PC10. check the shed for any repair-work required and ensure that the repairs are done in time without harming the goats		6	3	3
	PC11. remove faecal waste of animals regularly keep the area clean		5	2	3
	PC12. clean the area with disinfectant to prevent bacterial infections		5	3	2
	PC13. perform fumigation in the shed		5	2	3
	PC14. clean the feeding and water pans of the animals		5	2	3
	PC15. select appropriate crop to be grown on the farm land		6	4	2
	PC16. cultivate the crop for goat feed on the land designated on goat farm, using standard agricultural practices		6	2	4

	PC17. harvest the crop at appropriate time using appropriate agricultural practices		6	2	4
		Total	100	50	50
AGR/N4508 Procure and rear goats on a goat farm using good animal husbandry practices	PC1. identify the appropriate breeds of goat available in the region,	100	7	5	2
	PC2. procure appropriate stock from a reliable breeder in a livestock market		5	2	3
	PC3. mark the newly purchased animals by suitable identification mark using techniques that do not harm the goat		5	2	3
	PC4. prepare separate fodder for pregnant goats, young ones, sick goats and male goats, in consultation to veterinarian or animal health specialist		4	2	2
	PC5. prepare fodder from green leguminous roughage and grasses/tender tree leaves in the ratio of 50:50		4	2	2
	PC6. prepare concentrates as replacements when good quality green fodder is not available		4	3	1
	PC7. ensure suitable diet for kids		4	3	1
	PC8. prepare additional concentrates diet for does during breeding season		3	1	2
	PC9. check health of the goats before purchasing		4	2	2
	PC10. carry out vaccination of goats after buying and before mixing them with old animals		4	1	3
	PC11. identify symptoms of illness such as reduced feed intake, fever, abnormal discharge or unusual behaviour for common diseases		5	3	2
	PC12. protect the animals against common diseases by following veterinarian instructions		5	2	3

PC13. wash every instrument of the shed using recommended disinfectants	3	1	2
PC14. check for symptoms of PPR (Peste Des Petits Ruminants) Plague & CCPP (Contagious Caprine Pleura Pneumonia) in the goats	4	3	1
PC15. perform immediate segregation of sick animals from healthy ones, in case of outbreak of a contagious disease and take necessary disease control measures	5	2	3
PC16. perform Deworming of the animals regularly to ensure their safety from diseases	5	2	3
e.g. Heamonchosis			
PC17. examine the faeces of adult animals to detect eggs of internal parasites and treat the animals with suitable drugs	4	2	2
PC18. ensure hygiene while providing water to kids to protect them from water borne diseases	4	2	2
PC19. maintain a record for sick goats, their diseases and treatment given	3	2	1
PC20. maintain a stock of necessary vaccines and first aid kit with consultation of a veterinarian	3	1	2
PC21. coordinate with the veterinarian for scheduled vaccination for female goats, kids and sick goats respectively	3	2	1
PC22. segregate goats to be dehorned from the rest of the goats	3	1	2
PC23. perform dehorning of kids using appropriate procedure	3	1	2
PC24. perform scheduled hoof trimming with help of a veterinarian using appropriate tools and procedures	3	1	2

	PC25. follow necessary health, hygiene and safety guidelines w.r.t dehorning and hoof trimming processes		3	2	1
	Total	100	100	50	50
AGR/N4509 Carry out breeding procedures of goat in well managed conditions	PC1. use appropriate personal protective equipment prior to carrying out the work in line with relevant occupational health & safety guidelines	100	3	1	2
	PC2. assess potential risks related to work and implement relevant safety measures where applicable		3	1	2
	PC3. exercise safe working practices while dealing with sharp tools and construction accessories		3	1	2
	PC4. follow relevant electrical safety practices whenever required		3	2	1
	PC5. implement preventive measures to control the spread of communicable diseases from attendant to animals and vice versa		5	2	3
	PC6. obtain tools and materials required for breeding in line with required standard husbandry procedures		3	1	2
	PC7. confirm that the selected tools and breeding materials are in working order and safe to handle		4	3	1
	PC8. arrange separate pens for breeding goats		4	2	2
	PC9. identify the required type of breeds based on following characteristics		6	4	2
	PC10. select reliable source for procuring the litters along with the required information		6	3	3
	PC11. undertake health & fertility examinations of the selected litters with local veterinary practitioner		5	3	2
	PC12. maintain accurate records as per relevant livestock health & welfare regulations		4	3	1

	PC13. assess the health and behaviour of the potential breeding goats to confirm their suitability for breeding		4	2	2
	PC14. carry out daily inspection of goats and observe any abnormal behaviour, parasitic infestation and injuries		4	3	1
	PC15. establish favourable dwelling conditions as per standard animal husbandry procedures		4	1	3
	PC16. monitor activities of animals in pens and observe for any possible signs of stress and illnesses		3	1	2
	PC17. analyse the bloodlines and temperament of the goat		4	1	3
	PC18. check the biologically compatibility of buck and the doe/does, based on the goat breed		5	4	1
	PC19. select the appropriate method of breeding		6	3	3
	PC20. harvest the goat produce using standard harvesting procedures		5	3	2
	PC21. perform segregation of pregnant goats from horned goats to prevent them from any injuries		4	2	2
	PC22. leave the work area in a safe condition after completing work		3	1	2
	PC23. return all tools and equipment in appropriate storage location		3	1	2
	PC24. safely dispose wastes materials in line with environmental health & safety guidelines		3	1	2
	PC25. report any work related problems or issues to appropriate authority in accordance with relevant regulatory and safety requirements		3	1	2
		Total	100	50	50
AGR/N9908 Undertake basic entrepreneurial activities for small enterprise	PC1. seek information regarding demand and supply of produce in the market		10	5	5

	PC2. identify target customers and assess their needs such as amount required, purpose, quality, expectations, etc.	100	10	5	5
	PC3. perform basic accounting such calculating expenditure incurred, costing and pricing of produce		10	5	5
	PC4. ensure that the cost of production, transportation and marketing are included in costing and pricing		10	5	5
	PC5. collect information related to various subsidies/funds offered by the Government, authorized state units and other financial institutions involved with the promotion of the produce		10	5	5
	PC6. comply with relevant regulations in marketing of the produce		10	5	5
	PC7. track information related to wholesale and retail price of the produce		10	5	5
	PC8. record daily sell and purchase of items in designated log books, register, etc.		10	5	5
	PC9. record quantity, quality, date of manufacture and batch number of every produce accurately		10	5	5
	PC10. identify appropriate marketing channels related to the produce considering requirements and constraints		10	5	5
	Total		100	50	50
AGR/N9903 Maintain health & safety at the workplace	PC1. undertake basic safety checks before operation of all machinery and vehicles and hazards are reported to the appropriate supervisor	100	8	4	4

PC2. work for which protective clothing or equipment is required is identified and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy	8	4	4
PC3. read and understand the hazards of use and contamination mentioned on the labels of pesticides/fumigants etc	8	4	4
PC4. assess risks prior to performing manual handling jobs, and work according to currently recommended safe practice	8	4	4
PC5. use equipment and materials safely and correctly and return the same to designated storage when not in use	8	4	4
PC6. dispose of waste safely and correctly in a designated area	6	3	3
PC7. recognize risks to bystanders and take action to reduce risk associated with jobs in the workplace	6	3	3
PC8. perform your work in a manner which minimizes environmental damage all procedures and work instructions for controlling risk are followed closely	6	3	3
PC9. report any accidents, incidents or problems without delay to an appropriate person and take necessary immediate action to reduce further danger	6	3	3
PC10. follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency	6	3	3
PC11. follow emergency procedures to company standard / workplace requirements	6	3	3

	PC12. use emergency equipment in accordance with manufacturers' specifications and workplace requirements		6	3	3
	PC13. provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques		6	3	3
	PC14. recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate		6	3	3
	PC15. report details of first aid administered in accordance with workplace procedures		6	3	3
	Total		100	50	50
Total			500	250	250
Percentage Weightage:				50%	50%
Minimum Pass% to qualify (aggregate):				70%	