

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR AGRICULTURE & ALLIED INDUSTRY

What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack- Animal Health Worker

SECTOR: AGRICULTURE AND ALLIED

SUB-SECTOR: Animal Husbandry

OCCUPATION: Livestock Health Management

REFERENCE ID: AGR/Q4804

ALIGNED TO: NCO-2015/NIL

Animal Health Worker: An Animal Health Worker also known as Community Animal Health Worker / Community Resource Person (Veterinary) or Livestock Service Provider is a person selected from his/her own community to provide a set of "Minor Veterinary services" required for a given job role as per the provision of Indian Veterinary Council Act (No.52 of 1984). He / she works under indirect or distant supervision of registered veterinarian, under over-all monitoring of any registered development / private / producer led agency.

Brief Job Description: An Animal Health Worker provides preventive health care, assistance in contagious disease control and basic first aid services to farm animal and poultry, mostly in the outdoor setting. He / she also play a role in veterinary extension, disaster management and other environmental, public health related services.

Personal Attributes: An Animal Health Worker should have a mind for science, belongingness to the community, compassion for animals, good leadership, communication and observation skills. He / she should be physically strong and have manual dexterity to perform on the job.

Job Details	Qualifications Pack Code	AGR/Q4804		
	Job Role	Animal Health Worker		
	Credits NSQF	TBD	Version number	1.0
	Sector	Agriculture & Allied	Drafted on	09/12/14
	Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
	Occupation	Livestock Health Management	Next review date	14/06/21
	NSQC Clearance on	18/06/2015		

Job Role	Animal Health Worker (Also called as Community Animal Health Worker / Community Resource Person (veterinary) / Livestock Service Provider)
Role Description	To assist his / her immediate community by providing preventive health care, productivity enhancing and basic first aid services to farm animal and poultry.
NSQF level	3
Minimum Educational Qualifications	8th Standard passed
Maximum Educational Qualifications	Not applicable
Training	Not Mandatory
Minimum Job Entry Age	17 Years
Experience	One year of experience in community / village level work is preferable.
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> AGR/N4801 : Controlling / restraining of animals AGR/N4802 : Implementing regular preventive animal health care program AGR/N4805 : Veterinary first aid AGR/N4807 : Assisting government agencies in animal disease control AGR/N4808 : Assisting in veterinary extension services AGR/N4810 : Development program implementation and marketing in livestock sector AGR/N4813 : Assisting in animal welfare, breed conservation and disaster management <p>Optional:</p> <ol style="list-style-type: none"> AGR/N4821 : Implementation of animal breeding services in small farm animals
Performance Criteria	As described in the relevant OS units

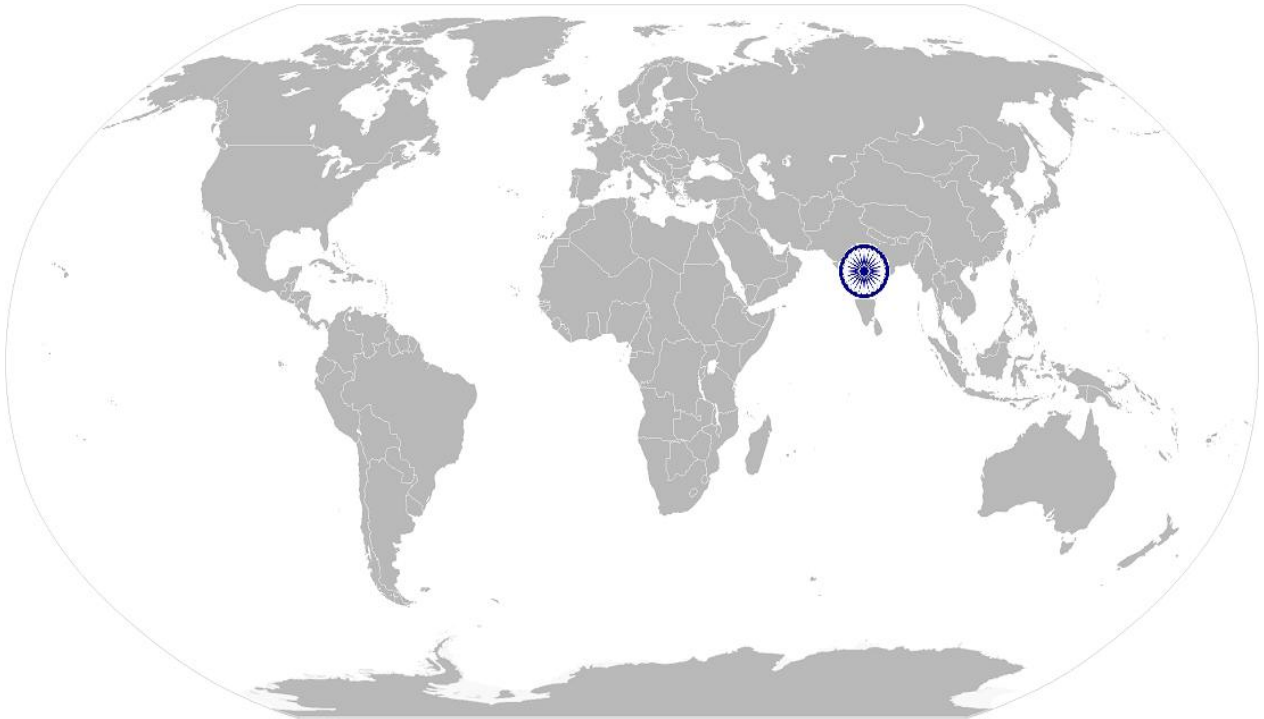
Definitions	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
	Sub Sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components
	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
	Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
	Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standard	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
	National Occupational Standard (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
	Qualification Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
	Qualification Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
	Unit Code	Unit Code is a unique identifier for an Occupational Standard, which is denoted by an 'N'.
	Unit title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.	
Knowledge and understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.	
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.	
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.	
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.	
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry	

Scheduled diseases	These are diseases notified under Prevention and Control of Infectious and Contagious Diseases in Animals Act 2009
'One Health' Approach	Collaborative effort of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals and the environment.
Keywords /Terms	Description
TBD	To Be Decided
QP	Qualifications Pack
OS	Occupational Standard
NOS	National Occupational Standard
NSQF	National Skills and Qualification Framework
NVEQF	National Vocational Education and Qualification Framework
OJT	On Job Training

AGR/N4801

Controlling / restraining of animals

National Occupational Standard



Overview

This unit deals with controlling and restraining of animals.

AGR/N4801

Controlling / restraining of animals

National Occupational Standard

Unit Code	AGR/N4801
Unit Title (Task)	Controlling / restraining of animals
Description	This OS unit is about controlling and restraining of animals for examination, surgery and administration of drugs.
Scope	This unit/task covers: <ul style="list-style-type: none"> • Various aspects such as understanding of animal behavior and responses, application of safety guidelines and use of tools and equipment.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Understand normal animal behavior , stimulus and responses of handled species (including common laboratory animals)	To be competent, the individual on the job must be able to: PC1. prepare and make the animal to cooperate during handling.
Apply general principles of animal handling and safety guidelines.	To be competent, the individual on the job must be able to: PC2. determine flight zone and point of balance of the animal and approach, hold animal securely and safely. PC3. achieve minimum stress and injury to the animal. PC4. ensure zero accident.
Use of tools and equipment to restrain animals	To be competent, the individual on the job must be able to: PC5. follow the prescribed procedures related to each tools and equipment.
Understanding of safety issues in the work environment	To be competent, the individual on the job must be able to: PC6. protect oneself from any physical injury arising out of animal handling PC7. use various personal protective materials / equipment. PC8. assess the risk of diseases which can be transmitted from animal to human.
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. relevant legislation, standards, policies, and procedures in work KA2. relevant health and safety requirements applicable in the work environment KA3. own job role and responsibilities and sources for information pertaining to work KA4. who to approach for support in order to obtain work related information, clarifications and support KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business KA6. documentation and related procedures applicable in the context of work

AGR/N4801

Controlling / restraining of animals

<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy on health event reporting / record keeping.</p> <p>KB2. understanding of supervisory structure</p> <p>KB3. basics of animal behavior, possible stimulus and negative responses.</p> <p>KB4. safety guidelines in animal handling.</p> <p>KB5. knowledge of flight zone, point of balance and procedure of holding animal securely and safely.</p> <p>KB6. knowledge related to appropriate use of tools and equipment to restrain animals</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief case report.</p> <p>SA2. fill data sheet / health monitoring proforma.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read government / organizational guideline / manuals.</p> <p>SA4. keep abreast with the latest knowledge by reading brochures, pamphlets, and other animal behavior and handling related information sheets.</p> <p>SA5. read directives from government / organization / supervising veterinarians.</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. discuss task lists, schedules, etc. with co-workers</p> <p>SA7. explain farmers / clients on use of tools / equipment in restraining.</p> <p>SA8. give clear suggestions / guidance to farmers / clients.</p>
<p>B. Professional Skills</p>	<p>Decision Making</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions related to use of techniques / tools and equipment based on animal behavior.</p> <p>Plan and Organize</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB2. plan various procedures.</p> <p>Customer Centricity</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. attend and make use of exposure visit</p> <p>SB4. work with organic farming experts</p> <p>SB5. manage relationships with laborers and other co-farmers</p> <p>Problem Solving</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. identify problems immediately and take up solutions quickly to resolve delays</p> <p>Analytical Thinking</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. investigate and analyze stimuli and animal behavior.</p>

AGR/N4801

Controlling / restraining of animals

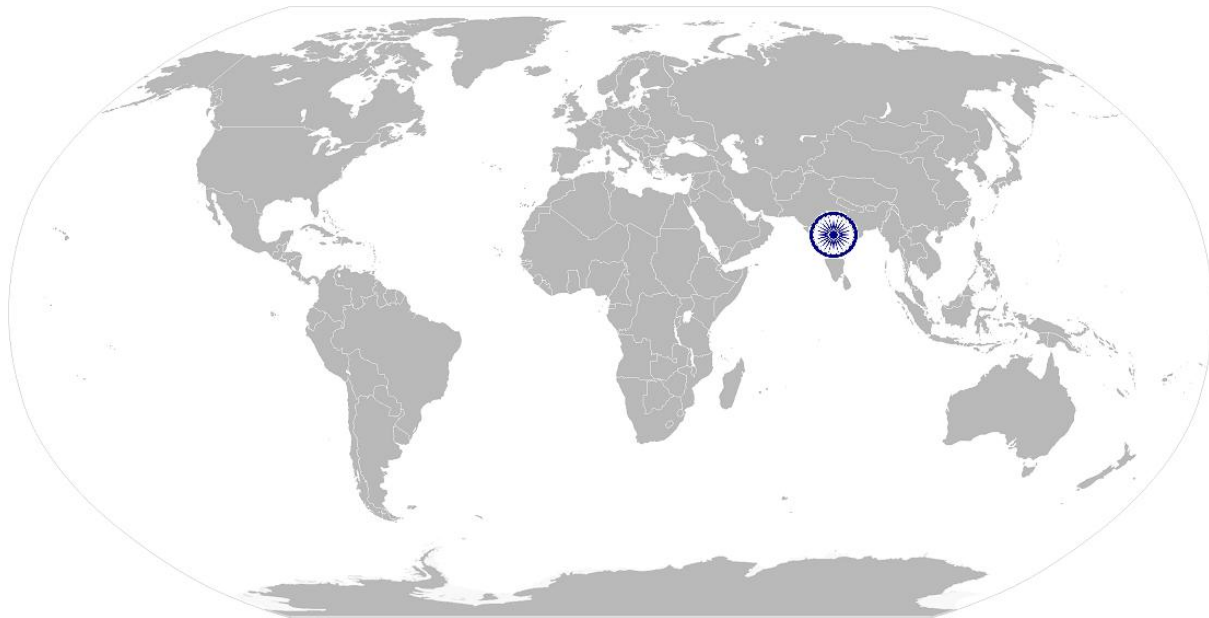
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB8. take up one's own working and learning

AGR/N4801

Controlling / restraining of animals

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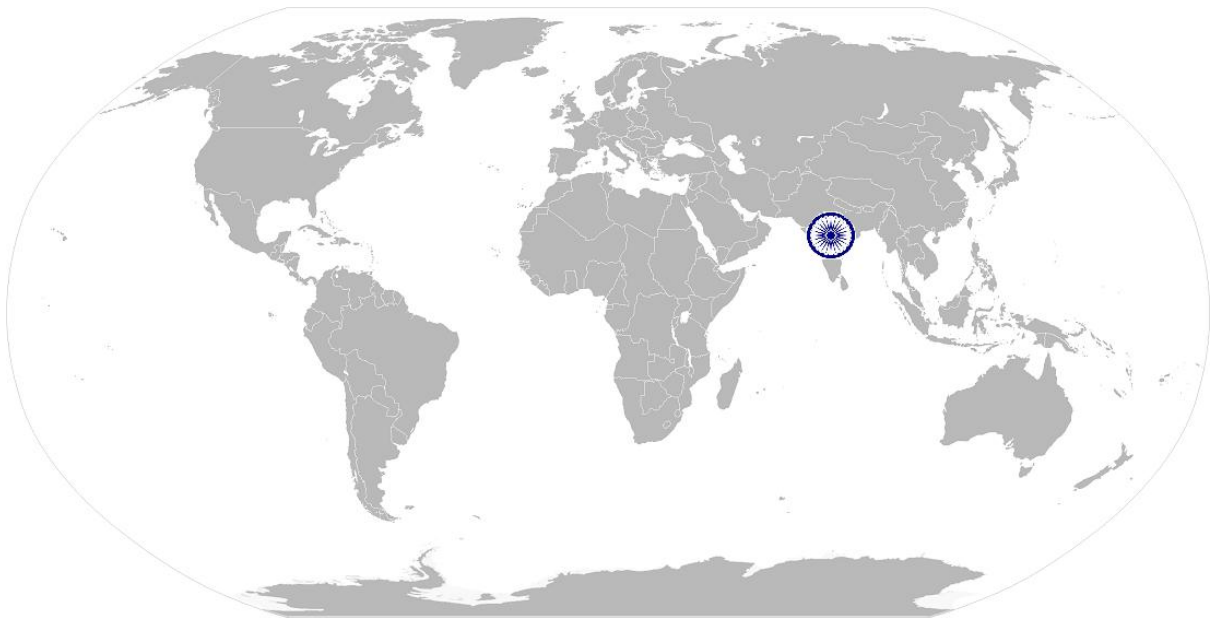
NOS Code	AGR/N4801		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4802

Implementing regular preventive animal health care program

National Occupational Standard



Overview

This unit deals with regular preventive Animal Health Care

AGR/N4802

Implementing regular preventive animal health care program

National Occupational Standard

Unit Code	AGR/N4802
Unit Title (Task)	Implementing regular preventive animal health care program
Description	This OS unit is about providing preventive animal health care.
Scope	This unit/task covers: <ul style="list-style-type: none"> • Various aspects of common preventive care starting from data gathering and risk management to actual care.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Animal data recording	To be competent, the individual on the job must be able to: <p>PC1. use point of care / field data collection tools (including electronic / mobile based data collection) as per given specifications.</p> <p>PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.</p> <p>PC3. regularly collect and submit health, production and breeding data related to attended individual / herd of animals to appropriate authority on time as per given format / criteria.</p>
Risk assessment and identification of preventable endemic disease(s)	To be competent, the individual on the job must be able to: <p>PC4. undertake appropriate action which is just for a farmer / client as far as preventing occurrence of preventable known disease(s) in his / her animal / farm is /are concerned.</p>
Review of standing technical guideline on control of scheduled / notified disease(s)	To be competent, the individual on the job must be able to: <p>PC5. take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s).</p>
Communication of business / health risk and bio-security related information to client.	To be competent, the individual on the job must be able to: <p>PC6. create future demand for preventive services by appropriately communicating the risk.</p> <p>PC7. Ensure high rate of voluntary compliance of bio-security norms.</p>
Scheduling of vaccination program	To be competent, the individual on the job must be able to: <p>PC8. schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.</p>
Pre and post vaccination care	To be competent, the individual on the job must be able to: <p>PC9. identify sick animals or animals not fit for vaccination.</p> <p>PC10. be prepared to face any emergency situation following vaccination.</p> <p>PC11. report side-effect (if any)</p>
Handling and Administration of vaccines	To be competent, the individual on the job must be able to: <p>PC12. conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.</p> <p>PC13. ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.</p> <p>PC14. rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.</p> <p>PC15. follow all scientific guideline related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines etc.</p>

AGR/N4802

Implementing regular preventive animal health care program

<p>Preventive de-worming.</p>	<p>To be competent, the individual on the job must be able to:</p> <p>PC16. follow local area guideline regarding species, age and season of de-worming.</p> <p>PC17. use only permissible products, following appropriate dose and procedure of administration (As per directive of supervising veterinarian)</p>
<p>Spraying of animals / birds or use of other method for control of ecto-parasites</p>	<p>To be competent, the individual on the job must be able to:</p> <p>PC18. use only permissible products, following appropriate dose and procedure of use / application.</p> <p>PC19. ensure scale of operation by involving maximum number of farmers in a given area.</p> <p>PC20. take precaution for minimum effect on animal / immediate environment.</p>
<p>Record keeping of preventive interventions, monitoring and follow up</p>	<p>To be competent, the individual on the job must be able to:</p> <p>PC21. ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.</p> <p>PC22. timely report vaccine failure to appropriate authority as per format.</p> <p>PC23. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.</p> <p>PC24. ensure herd coverage and continuity of vaccination program.</p>
<p>Knowledge and Understanding (K)</p>	
<p>A. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. relevant legislation, standards, policies, and procedures in work</p> <p>KA2. relevant health and safety requirements applicable in the work environment</p> <p>KA3. own job role and responsibilities and sources for information pertaining to work</p> <p>KA4. who to approach for support in order to obtain work related information, clarifications and support</p> <p>KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business</p> <p>KA6. documentation and related procedures applicable in the context of work</p>
<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant government / organizational guideline pertaining to preventive care procedure, use of products and reporting structure etc.</p> <p>KB2. impact / importance of preventive care program vis a vis organizational mandate.</p> <p>KB3. importance of data recording / monitoring vis a vis evaluation of preventive care program.</p> <p>KB4. funding and cost implication / benefit of preventive intervention</p> <p>KB5. use of data collection tool (including electronic)</p> <p>KB6. the prevalent farming system, social, geographical / environmental condition of the service area.</p> <p>KB7. prevalent diseases vis a vis affected species within the service area which can be prevented.</p> <p>KB8. symptoms, period of prevalence, pre-disposing factors.</p> <p>KB9. impact of such disease(s) and its geographical spread.</p>

AGR/N4802

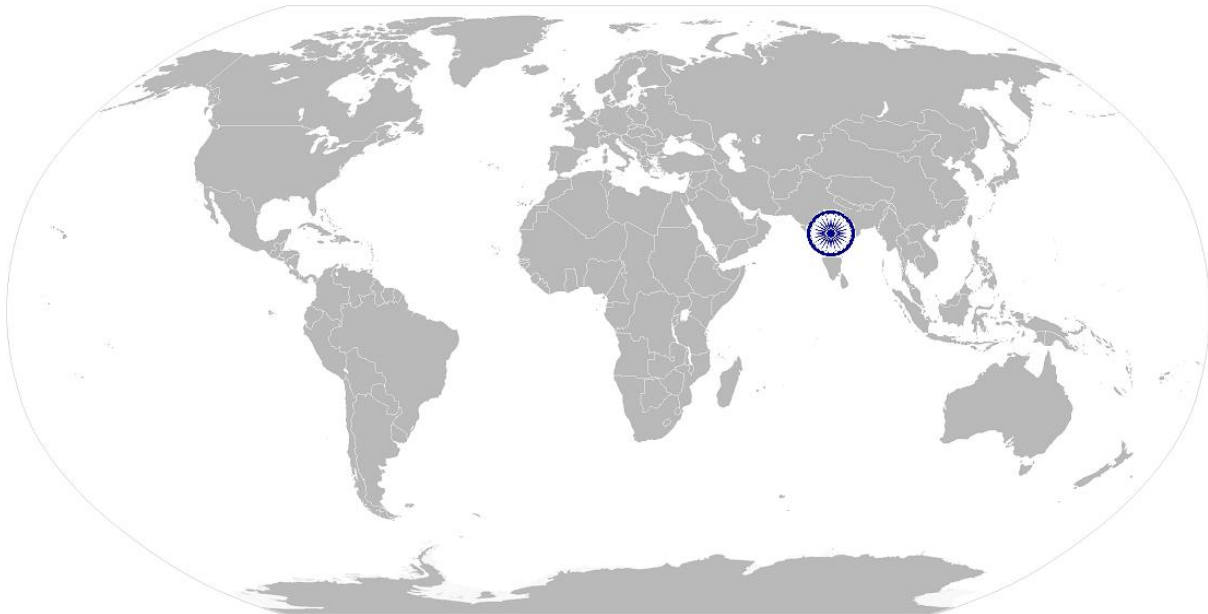
Implementing regular preventive animal health care program

	<p>KB10. pre-and post-vaccination care including handling of possible emergencies.</p> <p>KB11. type of vaccine and ways, importance of maintaining cool chain.</p> <p>KB12. availability of vaccines within given geographical area, storage and use (e.g. reconstitution etc.)</p> <p>KB13. scientific procedure of vaccine administration.</p> <p>KB14. environmental effect of chemicals used for control of ecto-parasite control.</p> <p>KB15. basic concept of herd immunity and measurement of same.</p> <p>KB16. basic concepts of disease prevention in wild free range animals.</p>
Skills (S)	
A. Core Skills/ Generic Skills	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief report / write email at least in local language</p> <p>SA2. fill data sheet.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read government / organizational guideline.</p> <p>SA4. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets.</p> <p>SA5. read government / organizational communications.</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. discuss task lists, schedules, etc. with co-workers</p> <p>SA7. ask question and listen to farmers / clients to collect required data.</p> <p>SA8. give clear suggestions / guidance to farmers / clients.</p>
B. Professional Skills	<p>Decision Making</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions pertaining to the concerned area of work.</p> <p>Plan and Organize</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB2. Plan activities and carry them through effectively involving farmers / clients.</p> <p>SB3. follow given procedures.</p> <p>SB4. use communication tools</p> <p>Customer Centricity.</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB5. participate in organic farming exhibition/seminar/workshop</p> <p>SB6. attend and make use of exposure visit</p> <p>SB7. work with organic farming experts</p> <p>Problem Solving</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB8. solve problem arising out of implementation / scheduling of activities</p> <p>Analytical Thinking</p>

AGR/N4802

Implementing regular preventive animal health care program

	The user/individual on the job needs to know and understand how to: SB9. gather information systematically to establish a fact.
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB10. take up his own working and learning



AGR/N4802

Implementing regular preventive animal health care program

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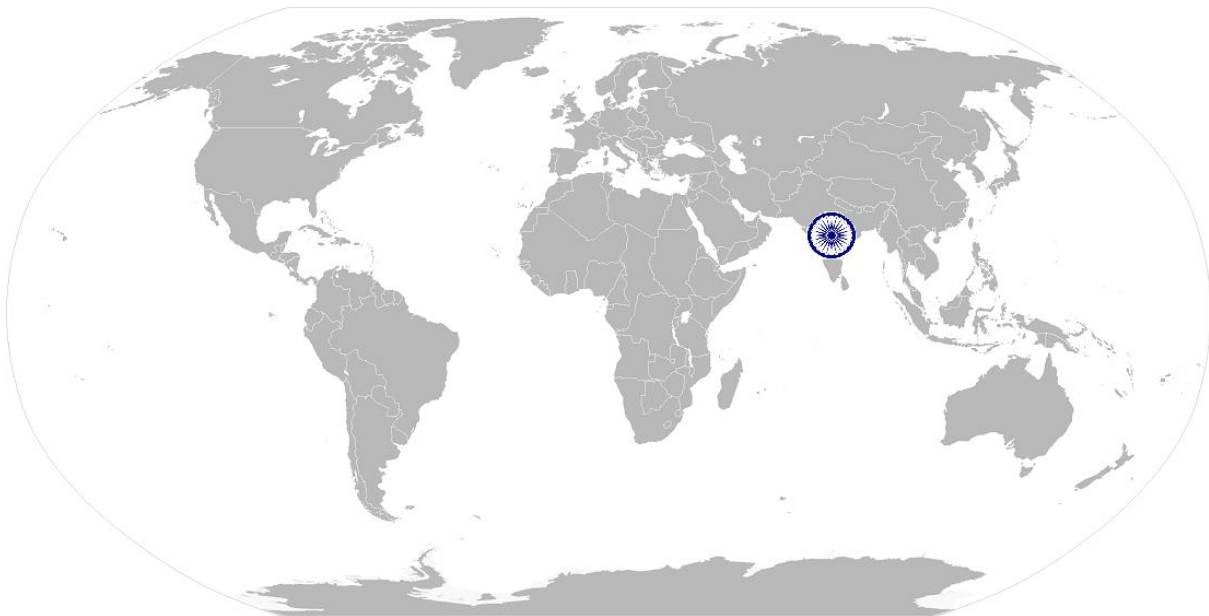
NOS Code	AGR/N4802		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4805

Veterinary first aid

National Occupational Standard



Overview

This unit deals with Veterinary First Aid

AGR/N4805

Veterinary first aid

Unit Code	AGR/N4805
Unit Title (Task)	Veterinary first aid
Description	This OS unit is about veterinary first Aid
Scope	This unit/task covers: <ul style="list-style-type: none"> • Various aspects of first aid including immediate relief and treatment of noninfectious emergency conditions and accidents.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Cleaning and washing of muzzle, mouth, hooves, feet etc. with antiseptic solutions	To be competent, the individual on the job must be able to: PC1. prepare aseptic solution.
Treatment of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc.	To be competent, the individual on the job must be able to: PC2. diagnose emergency situation and use common suggested medications / follow precautions as per manual. PC3. describe common symptoms of diseases in animals and report accordingly. PC4. identify common infectious / scheduled animal diseases and ensure timely reporting of the same.
Provide immediate support to accidental situations like poisoning, sun-stroke, electrocution, burn injuries etc.	To be competent, the individual on the job must be able to: PC5. identify from symptoms the cause of the accident. PC6. assess the severity of the accident and suggest for consultation with veterinarian. PC7. provide basic / immediate care as specified for each type of accidents.
Handling of superficial wound and trauma.	To be competent, the individual on the job must be able to: PC8. to be able to stop bleeding, clean and protect the wound.
Initial support in cases like prolapse of uterus.	To be competent, the individual on the job must be able to: PC9. to be able to ensure aseptic handling and protection of the prolapsed organ(s) before the arrival of veterinarian.
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. relevant legislation, standards, policies, and procedures in work KA2. relevant health and safety requirements applicable in the work environment KA3. own job role and responsibilities and sources for information pertaining to work KA4. who to approach for support in order to obtain work related information, clarifications and support KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business KA6. documentation and related procedures applicable in the context of work

AGR/N4805

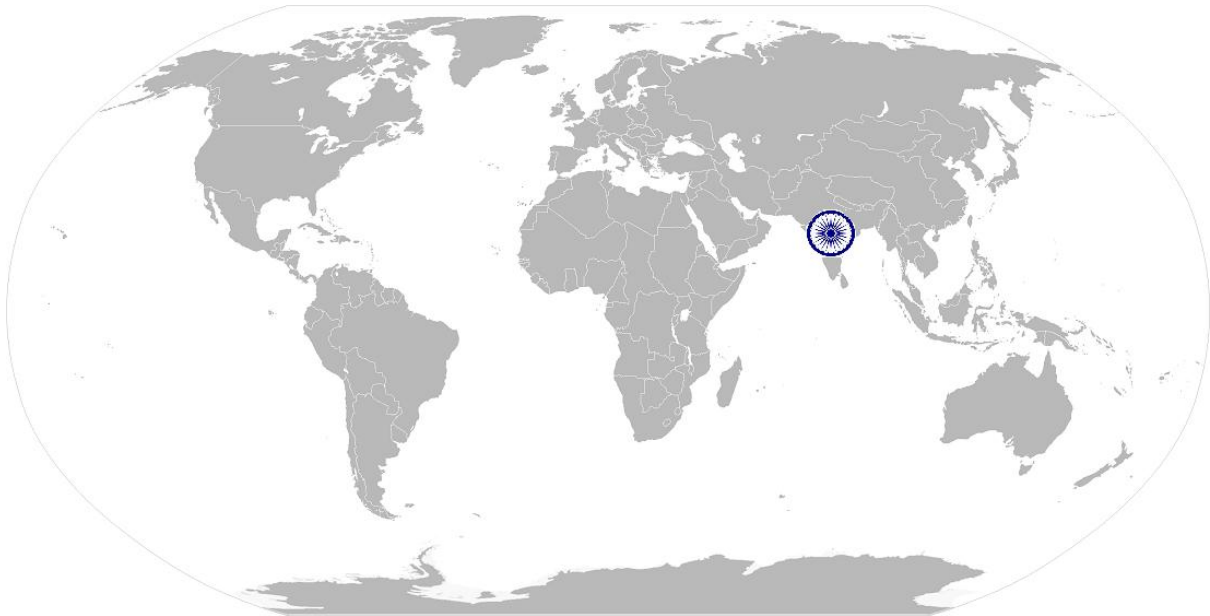
Veterinary first aid

<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy on health event reporting / record keeping.</p> <p>KB2. understanding of supervisory structure</p> <p>KB3. basics of emergency conditions in animal along with pre-disposing factors.</p> <p>KB4. nature of wounds vis a vis procedure of cleaning and protection</p> <p>KB5. uses and doses of common medications in emergency situations.</p> <p>KB6. common approaches in handling poisoning and natural calamities.</p> <p>KB7. ways to differentiate a diseased animal from a healthy animal.</p> <p>KB8. major symptoms of common scheduled diseases.</p> <p>KB9. use of approved ethno-veterinary practices.</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. fill data sheet / health monitoring proforma.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA2. read government / organizational guideline / manuals.</p> <p>SA3. read directives from government/organization / supervising veterinarians.</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. discuss task lists, schedules, etc. with co-workers</p> <p>SA5. explain farmers / clients on presented symptoms / emergency condition.</p> <p>SA6. give clear suggestions / guidance to farmers / clients.</p>
<p>B. Professional Skills</p>	<p>Decision Making</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions related to use of medication out of permitted assortments.</p> <p>Plan and Organize</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB2. To relate emergency situation to immediate events in surrounding environment</p> <p>Customer Centricity</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB3. participate in organic farming exhibition/seminar/workshop</p> <p>SB4. attend and make use of exposure visit</p> <p>Problem Solving</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB5. identify problems immediately and take up solutions quickly to resolve delays</p>

AGR/N4805

Veterinary first aid

	Analytical Thinking
	The user/individual on the job needs to know and understand:how to SB6. monitor and maintain the material and equipment required for various farm operations
	Critical Thinking
	The user/individual on the job needs to know and understand:how to SB7. take up one’s own working and learning

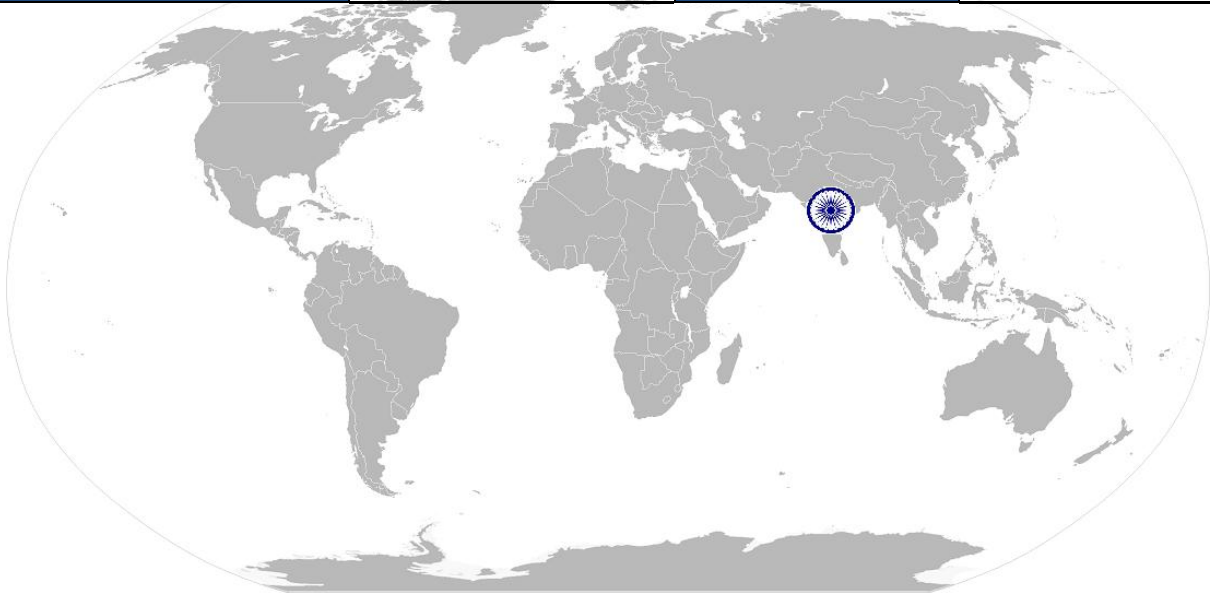


AGR/N4805

Veterinary first aid

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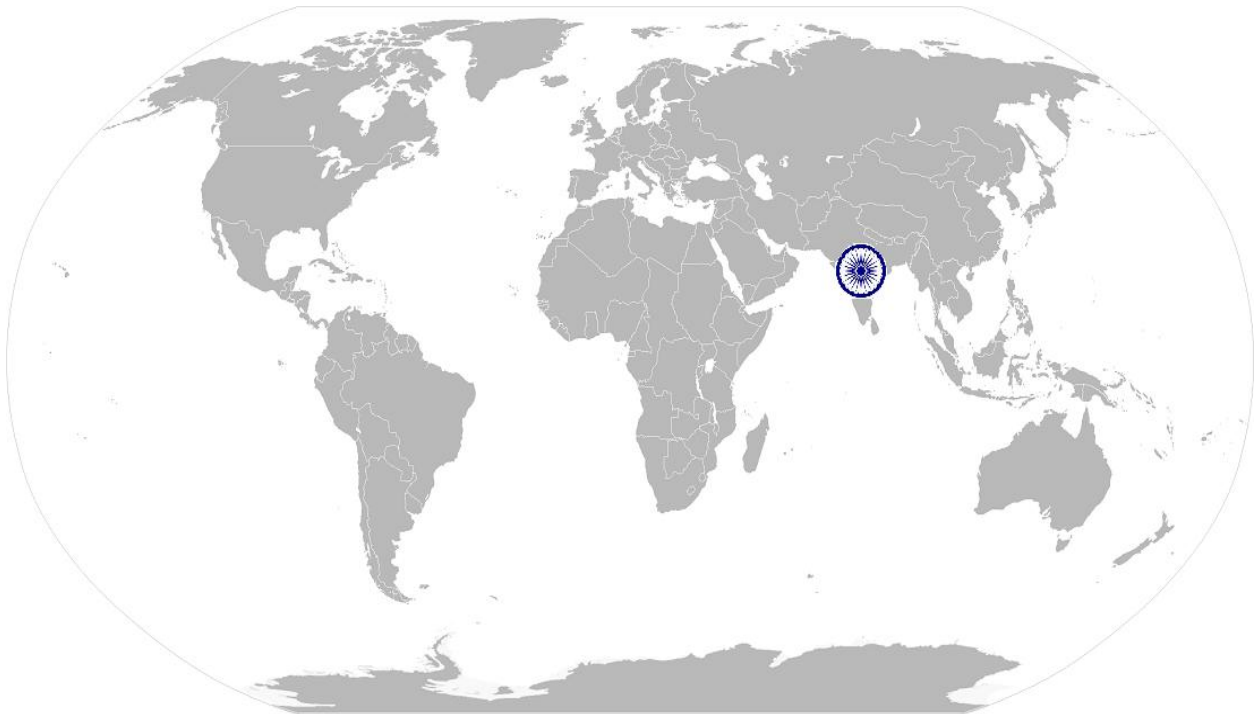
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Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4807

Assisting government agencies in animal disease control

National Occupational Standard



Overview

This unit deals with animal disease control.

AGR/N4807

Assisting government agencies in animal disease control

National Occupational Standard

Unit Code	AGR/N4807
Unit Title (Task)	Assisting government agencies in animal disease control
Description	This OS unit is about assisting government authorities in animal disease control
Scope	This unit/task covers: <ul style="list-style-type: none"> Various activities in the context of planned government initiatives to control animal diseases starting with data gathering and stakeholder engagement to post outbreak related actions.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Assisting in implementation of collaborative activities / data gathering including that under "One Health" related programs	To be competent, the individual on the job must be able to: PC1. relate to multiple factors that can predispose or cause spread of diseases. PC2. appreciate the 'one health approach' in controlling diseases and cooperate with partnering agencies (s).
Providing leadership for local resource mobilization and partnership	To be competent, the individual on the job must be able to: PC3. Ensure local resources (e.g. support materials, skills and abilities of local people) to strengthen government effort at reaching out to farmers for events like vaccination camps etc.
Implementing bio-security norms within identifies area / livestock market / farms as per guideline.	To be competent, the individual on the job must be able to: PC4. update government records on livestock markets / farms. PC5. engage with officials of local self-government and market institutions. PC6. guide implementation of approved government guideline related to market operation, cleaning etc.
Recording and reporting of animal movement route (including cross border movement)	To be competent, the individual on the job must be able to: PC7. describe routes in relation to approved maps / known border areas. PC8. apply judgment regarding nature of trade / frequency of movement / animal holding areas, volume etc. PC9. report animal movement as per standard format.
Creating awareness on livestock value chain / transport related risky practices.	To be competent, the individual on the job must be able to: PC10. understand common activities from farm to fork, relationships between various types of people, movement of goods in livestock / poultry related business. PC11. identify risky practices and report to veterinarians / superior officers.
Administration of preventive herd level medication (where suggested)	To be competent, the individual on the job must be able to: PC12. follow directive and guideline.
Reporting of disease incidence / outbreak.	To be competent, the individual on the job must be able to: PC13. use standard format for reporting.
Supervise culling and disposal of animal / bird.	To be competent, the individual on the job must be able to: PC14. ensure humane culling methods. PC15. ensure scientific disposal of culled carcasses as per guideline.
Supervise disinfection of farm premise / local area	To be competent, the individual on the job must be able to: PC16. ensure use of appropriate disinfectant and adoption to prescribed

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Assisting government agencies in animal disease control

	<p>procedure of application.</p> <p>PC17. ensure coverage of areas / farms as per suggestion of government authority.</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. relevant legislation, standards, policies, and procedures in work</p> <p>KA2. relevant health and safety requirements applicable in the work environment</p> <p>KA3. own job role and responsibilities and sources for information pertaining to work</p> <p>KA4. who to approach for support in order to obtain work related information, clarifications and support</p> <p>KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business</p> <p>KA6. documentation and related procedures applicable in the context of work</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy on health event reporting / record keeping</p> <p>KB2. reporting structure</p> <p>KB3. basics concept of 'one health' and its importance.</p> <p>KB4. ways of disease transmission, concept of bio-security control in livestock markets / farms.</p> <p>KB5. various activities, relationship of people of livestock / poultry business from 'farm to fork' along with risky common practices.</p> <p>KB6. linkage between risky practices / animal movement and disease transmission.</p> <p>KB7. culling, disposal and disinfection methods.</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief report.</p> <p>SA2. fill data sheet</p>
	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read government / organizational guideline / manuals.</p> <p>SA4. keep abreast with the latest knowledge of disease outbreaks etc. by reading brochures, pamphlets, websites etc.</p> <p>SA5. read directives from government / organization / supervising veterinarians.</p>
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. discuss task lists, schedules, etc. with co-workers</p> <p>SA7. explain farmers and other stakeholders on importance of addressing risky</p>

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Assisting government agencies in animal disease control

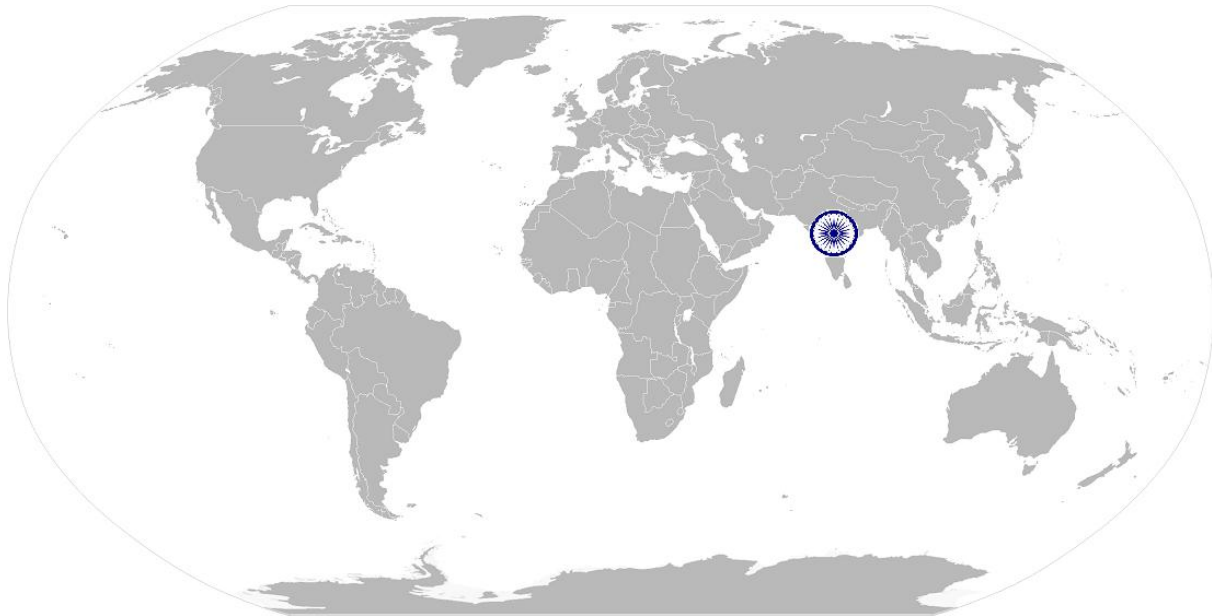
	practices for disease control SA8. give clear suggestions / guidance to farmers / clients.
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. make early decisions related reporting of disease outbreaks.
	Plan and Organize
	The user/individual on the job needs to know and understand:how to SB2. plan various activities SB3. send email and enter data to database as per given format
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. attend and make use of exposure visit SB5. work with organic farming experts SB6. manage relationships with laborers and other co-farmers
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB7. identify problems immediately and take up solutions quickly to resolve delays SB8. think through the problem, evaluate the possible solution(s) and adopt an optimum /best possible solution(s)
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB9. Investigate and analyze livestock value chain activities.
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB10. take up one's own working and learning	

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Assisting government agencies in animal disease control

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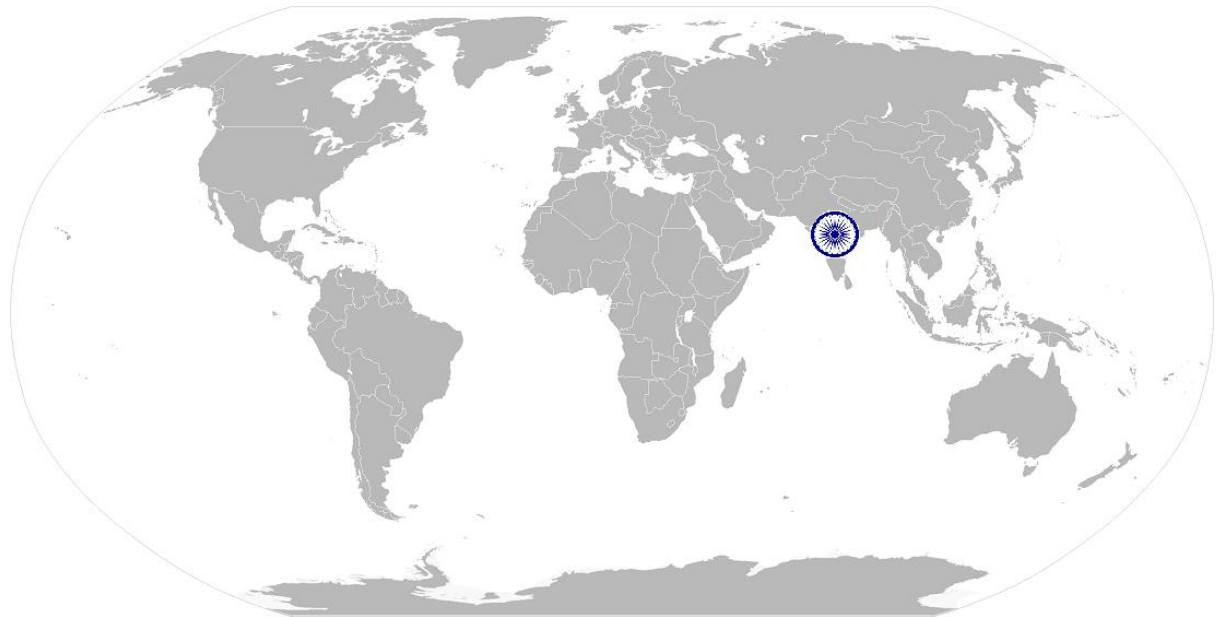
NOS Code	AGR/N4807		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4808

Assisting in veterinary extension services

National Occupational Standard



Overview

This unit deals with veterinary extension.

AGR/N4808
Assisting in veterinary extension services

National Occupational Standard

Unit Code	AGR/N4808
Unit Title (Task)	Assisting in veterinary extension services
Description	This OS unit is about assisting organization in conducting veterinary extension related activities.
Scope	This unit/task covers: <ul style="list-style-type: none"> Planned promotion of approved technologies and practices for productivity enhancement and profitability of farming operation.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Promoting approved technology and best practices (including organic practices) in livestock farming, handling of animal products.	To be competent, the individual on the job must be able to: <ul style="list-style-type: none"> PC1. understand and explain the applicability and benefit associated with common approved technology(s) / best practice(s) in the context of local situations, opportunities and constraints. PC2. give feedback on technology application in field and need for improvement (if any). PC3. organize extension events based on farmer convenience and seasonal suitability.
Assist farmers on quality farm input selection and procurement.	To be competent, the individual on the job must be able to: <ul style="list-style-type: none"> PC4. understand and explain quality parameters regarding various farm inputs. PC5. scout sources, plan and organize farmers for intelligent (timely, quality and cost based) procurement of inputs.
Assist in maintaining record of farmer meeting / farm school activities	To be competent, the individual on the job must be able to: <ul style="list-style-type: none"> PC6. keep record that can help make farmer meeting and farm school activities 'targeted' and 'need based'
Use of mobile and other technology for extension / client education	To be competent, the individual on the job must be able to: <ul style="list-style-type: none"> PC7. use modern communication devices, audio-visual aids to explain farmers / clients.
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KA1. relevant legislation, standards, policies, and procedures in work KA2. relevant health and safety requirements applicable in the work environment KA3. own job role and responsibilities and sources for information pertaining to work KA4. who to approach for support in order to obtain work related information, clarifications and support KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business KA6. documentation and related procedures applicable in the context of work

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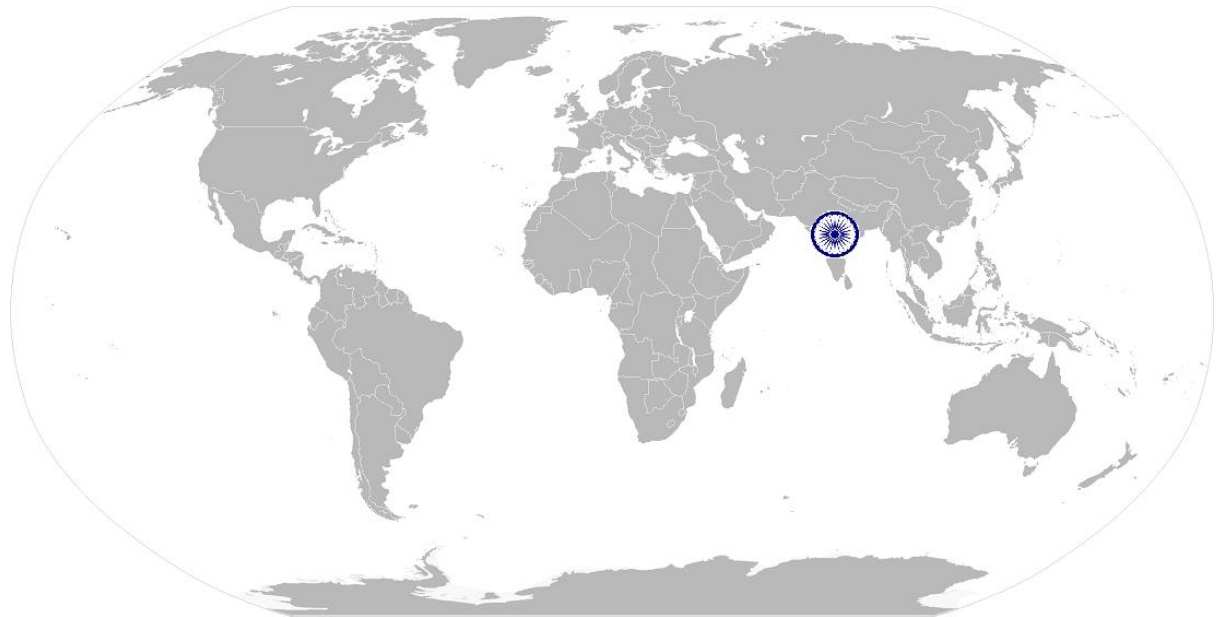
Assisting in veterinary extension services

<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy, products and services.</p> <p>KB2. supervisory structure</p> <p>KB3. common popular production / processing technologies in livestock / poultry farming / product handling.</p> <p>KB4. common feed ingredients / fodder variety and their uses / fodder preservation and enrichment.</p> <p>KB5. organoleptic testing of feed.</p> <p>KB6. basic body scoring methods and selection of animals.</p> <p>KB7. basics of animal housing and farm infrastructure.</p> <p>KB8. use of communication devices.</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief field program report.</p> <p>SA2. fill data sheet and survey form.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read government / organizational guideline / manuals.</p> <p>SA4. keep abreast with the latest knowledge / technologies by reading brochures, pamphlets, and other related information sheets.</p> <p>SA5. read directives from government / organization / supervising veterinarians.</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA6. discuss task lists, schedules, etc. with co-workers</p> <p>SA7. explain farmers / clients on use of various technologies.</p> <p>SA8. give clear suggestions / guidance to farmers / clients.</p>
<p>B. Professional Skills</p>	<p>Decision Making</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions related to suitability of any technology based on local situations.</p> <p>Plan and Organize</p> <p>The user/individual on the job needs to know and understand:how to</p> <p>SB2. how to plan for various extension events.</p> <p>SB3. use electronic communication / presentation tools</p> <p>Customer Centricity</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. attend and make use of exposure visit</p> <p>SB5. work with organic farming experts</p> <p>SB6. manage relationships with laborers and other co-farmers</p> <p>Problem Solving</p>

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Assisting in veterinary extension services

	The user/individual on the job needs to know and understand how to: SB7. identify problems immediately and take up solutions quickly to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB8. investigate and analyze adopted technologies and provide feedback to supervising veterinarian / scientist.
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB9. take up one's own working and learning



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Assisting in veterinary extension services

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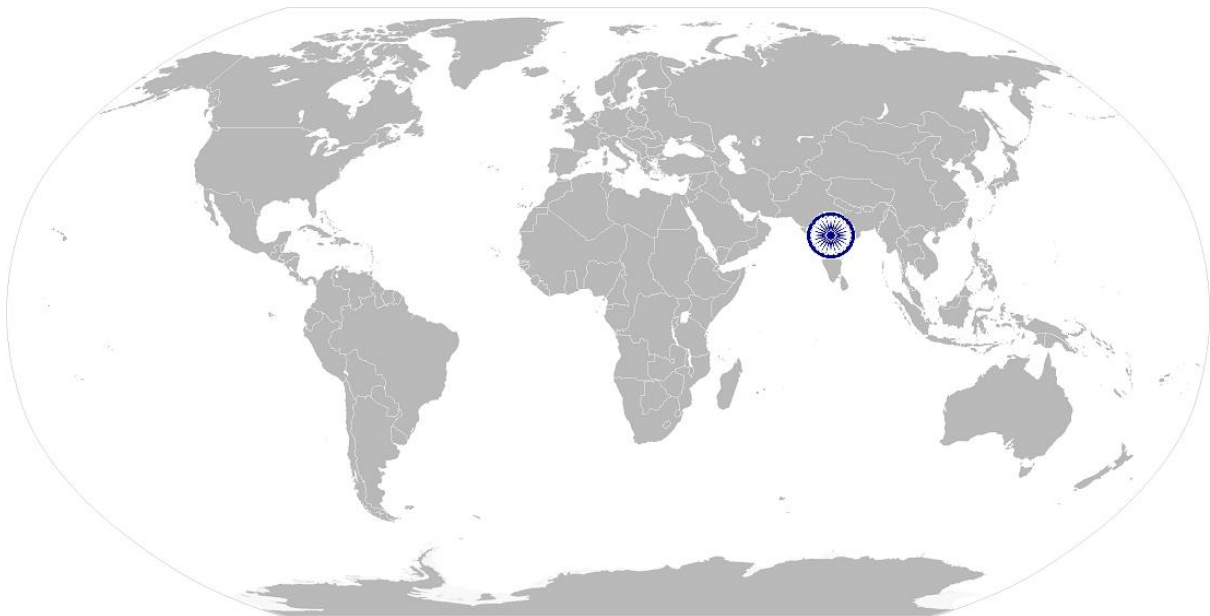
NOS Code	AGR/N4808		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4810

Development program implementation and marketing in livestock sector

National Occupational Standard



Overview

This unit deals with development program implementation and marketing in livestock sector

AGR/N4810

Development program implementation and marketing in livestock sector

National Occupational Standard

Unit Code	AGR/N4810
Unit Title (Task)	Development program implementation and marketing in livestock sector
Description	This OS unit is about assisting organization in implementing programs and projects in livestock sector (including one related to marketing of livestock products).
Scope	This unit/task covers : <ul style="list-style-type: none"> Basics of development program implementation such as empowerment / awareness creation, engagement with stakeholders and promotion of economic activities.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Facilitation of implementation of government / private development programs.	To be competent, the individual on the job must be able to: PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the promoted project / program. PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs.
Engagement with farmers' institutions and local self-government (Panchayat)	To be competent, the individual on the job must be able to: PC3. attend and cooperate during meetings / programs of farmer's institutions / panchayats. PC4. inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries. PC5. facilitate organizations' / panchayat's endeavor to ensure convergence of development projects for synergy.
Facilitation of agri-livestock related economic activity of self-help groups	To be competent, the individual on the job must be able to: PC6. motivate and handhold formation of self-help groups. PC7. guide farmers on business options and basic economics of various livestock linked activities.
Facilitation of marketing of livestock farm inputs / products.	To be competent, the individual on the job must be able to: PC8. motivate farmers to produce for market and ensure aggregation, collective marketing of livestock products. PC9. provide market related e.g. prices etc. information to farmers. PC10. provide information on livestock farm inputs e.g. feed, fodder, supplements etc.
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. relevant legislation, standards, policies, and procedures in work KA2. relevant health and safety requirements applicable in the work environment KA3. own job role and responsibilities and sources for information pertaining to work KA4. who to approach for support in order to obtain work related information, clarifications and support KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

AGR/N4810

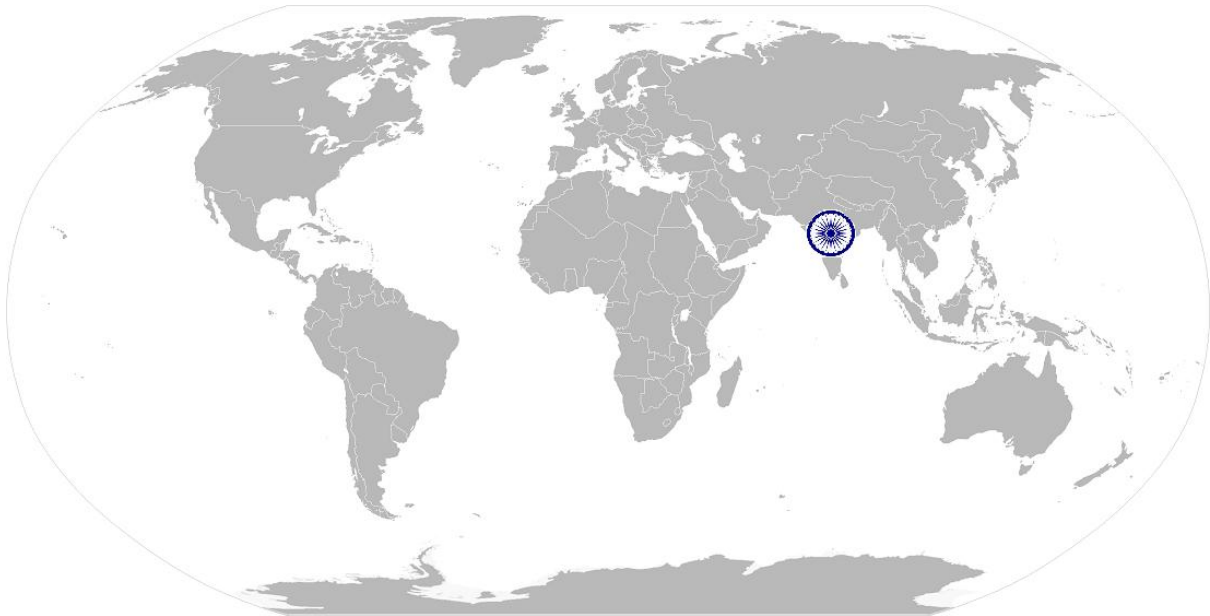
Development program implementation and marketing in livestock sector

	KA6. documentation and related procedures applicable in the context of work
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy and programs</p> <p>KB2. basics of development project management.</p> <p>KB3. guideline on self-help group / producer company formation and functioning.</p> <p>KB4. common livestock based business activities and economics thereof.</p> <p>KB5. basic understanding of common rural development programs of the government.</p> <p>KB6. basics of marketing and markets in the context of livestock products.</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. prepare a brief report.
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. read government / organizational guideline / manuals. SA3. keep abreast with the latest information / knowledge on rural development livestock market by reading new papers, magazines etc. SA4. read directives from reporting government / private organization
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. discuss and explain benefit / outcome development programs. SA6. listen and comprehend farmer's problems and suggestions.
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. make decisions pertaining to the concerned area of work
	Plan and Organize
	The user/individual on the job needs to know and understand:how to SB2. plan activities. SB3. use electronic gadgets to promote programs / projects and engage with farmers / clients
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. attend and make use of exposure visit SB5. manage relationships with laborers and other co-farmers
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. identify problems immediately and take up solutions quickly to resolve delays
Analytical Thinking	

AGR/N4810

Development program implementation and marketing in livestock sector

	The user/individual on the job needs to know and understand how to: SB7. investigate and analyze opportunities and difficulties in program implementation.
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB8. take up one's own working and learning

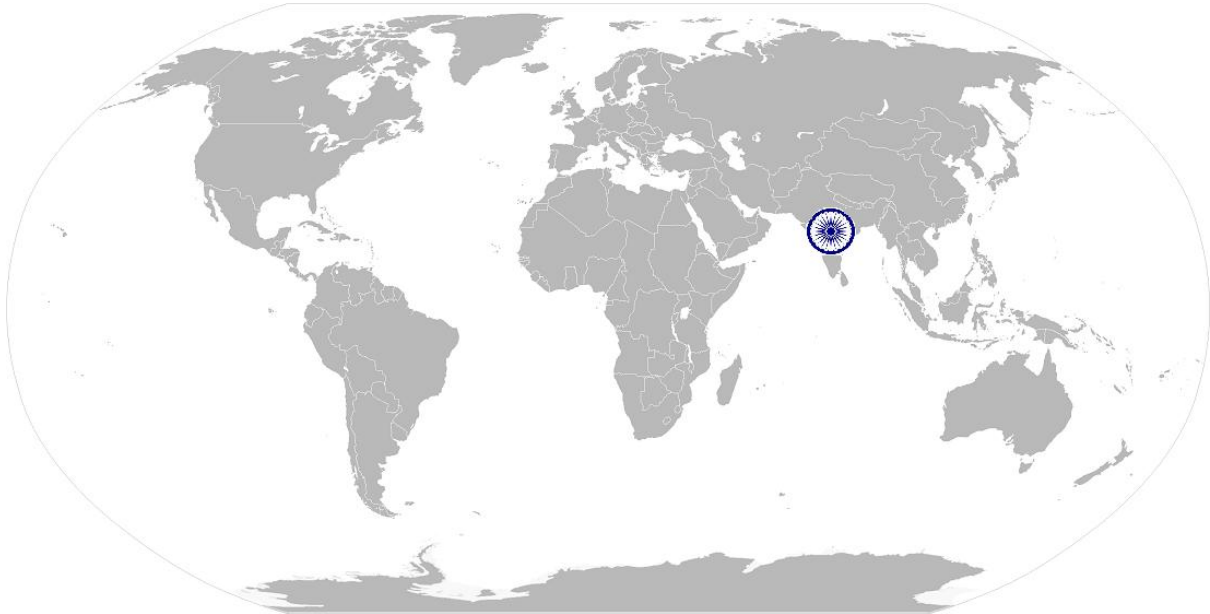


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Development program implementation and marketing in livestock sector

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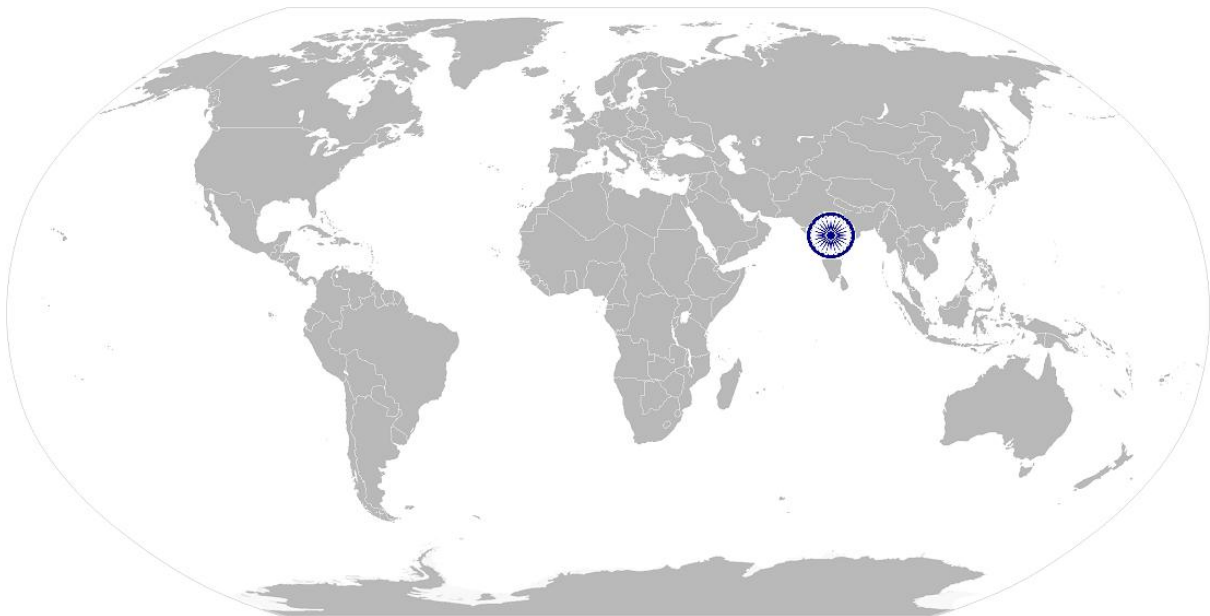
NOS Code	AGR/N4810		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4813

Assisting in animal welfare, breed conservation and disaster management

National Occupational Standard



Overview

This unit deals with animal welfare , breed conservation and disaster management.

AGR/N4813 Assisting in animal welfare, breed conservation and disaster management

National Occupational Standard

Unit Code	AGR/N4813
Unit Title (Task)	Assisting in animal welfare, breed conservation and disaster management
Description	This OS unit is about assisting organization in implementing programs related to animal welfare and conservation.
Scope	This unit/task covers: <ul style="list-style-type: none"> Animal welfare and conservation of animal resources besides preparedness for disasters.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Identifying and reporting of cruelty to animals / birds.	To be competent, the individual on the job must be able to: PC1. explain the cruelty for effective reporting.
Supporting management of human animal conflict	To be competent, the individual on the job must be able to: PC2. explain stakeholders on common prevention and protection strategies related to common conflict situation.
Promotion of rearing of purebred indigenous animals	To be competent, the individual on the job must be able to: PC3. scout and engage with interested breeding farms / goshala's (Protective shelters for cows in India) for conservation of purebred animals.
Supporting disaster preparedness and handling	To be competent, the individual on the job must be able to: PC4. help in stocking (as a preparedness) and mobilization of feed / fodder at the time of disasters. PC5. work with community and disaster management authorities to provide safe passage to animals / livestock. PC6. provide care / shelter to animal in distress PC7. undertake appropriate measures for carcass disposal. PC8. undertake culling and other measures suggested in case of disease related emergencies.
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KA1. relevant legislation, standards, policies, and procedures in work KA2. relevant health and safety requirements applicable in the work environment KA3. own job role and responsibilities and sources for information pertaining to work KA4. who to approach for support in order to obtain work related information, clarifications and support KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business KA6. documentation and related procedures applicable in the context of work

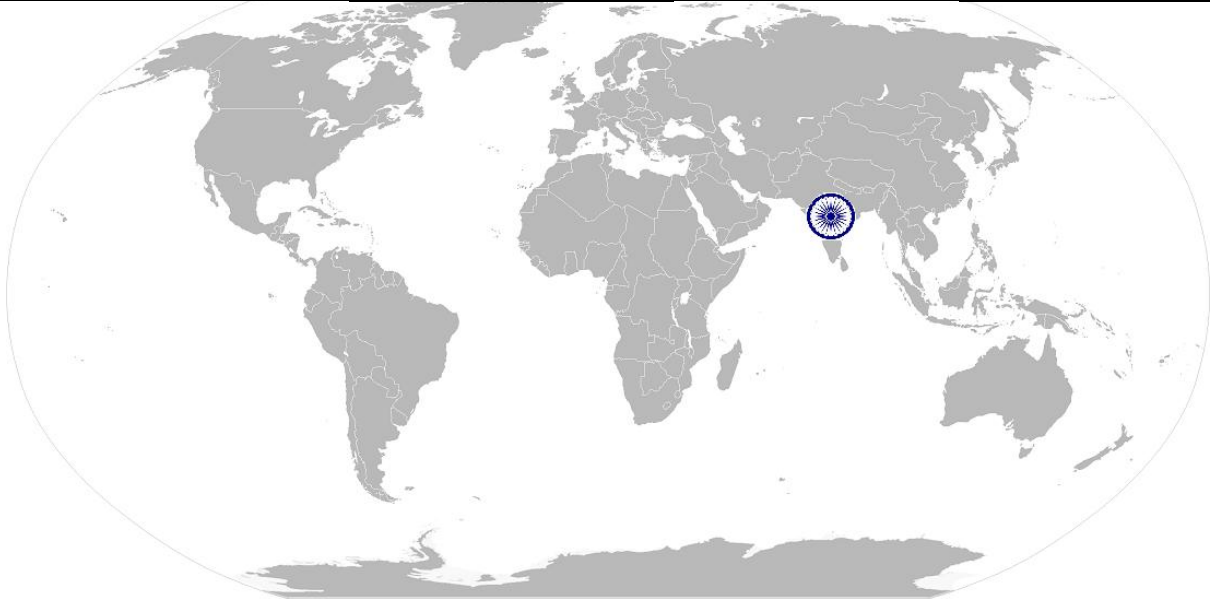
AGR/N4813 Assisting in animal welfare, breed conservation and disaster management

B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational guideline on reporting and partnerships</p> <p>KB2. importance of conservation and essential role of wildlife in ecosystem functioning.</p> <p>KB3. common prevention and protection strategies in human animal conflict situations.</p> <p>KB4. basic aspects of disaster management.</p> <p>KB5. rules and regulation related to animal welfare and wild life conservation.</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief report.</p>
	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA2. read government / organizational guideline.</p> <p>SA3. read directives from government / organization / supervising veterinarians.</p>
	Oral Communication (Listening and Speaking skills)
<p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. discuss task lists, schedules, etc. with co-workers</p> <p>SA5. explain farmers / animal owners on disaster management issues.</p>	
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions related to steps needed to protect the interest of livestock / animals in the event of disaster.</p>
	Plan and Organize
	<p>The user/individual on the job needs to know and understand:how to</p> <p>SB2. plan various activities.</p> <p>SB3. use mobile / electronic gadgets helpful during disasters</p>
	Customer Centricity
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. manage relationships with laborers and other co-farmers</p> <p>SB5. build relationships and use human centric approach</p>
	Problem Solving
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. identify problems immediately and take up solutions quickly to resolve delays</p>
	Analytical Thinking
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. Investigate and analyze possible after-effect of disasters.</p>
Critical Thinking	
<p>The user/individual on the job needs to know and understand how to:</p> <p>SB8. take up one's own working and learning</p>	

AGR/N4813 Assisting in animal welfare, breed conservation and disaster management

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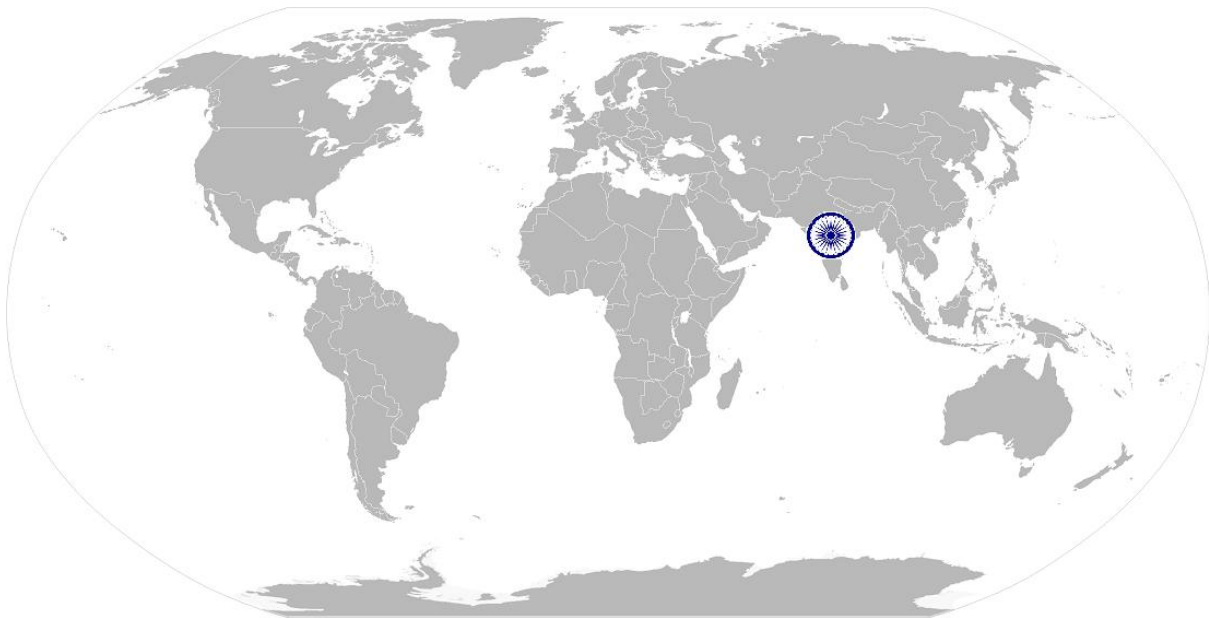
NOS Code	AGR/N4813		
Credits NSQF	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



AGR/N4821

Implementation of animal breeding services in small farm animals

National Occupational Standard



Overview

This unit deals with animal breeding services in small farm animals.

AGR/N4821

Implementation of animal breeding services in small farm animals

National Occupational Standard

Unit Code	AGR/N4821
Unit Title (Task)	Implementation of animal breeding services in small farm animals (if required)
Description	This OS unit is about assisting organization in implementing programs related to animal breeding in small farm animals.
Scope	<p>This unit/task covers:</p> <ul style="list-style-type: none"> • Various aspects of small farm animal breeding, starting from pre-breeding related activities such as breeder database maintenance, quality animal selection to actual breeding and performance monitoring.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Maintenance of database of good animal breeders.	<p>To be competent, the individual on the job must be able to:</p> <p>PC1. help farmers / clients with information on sources of good breeding animals.</p>
Assistance to farmers in quality animal selection / purchase.	<p>To be competent, the individual on the job must be able to:</p> <p>PC2. assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose.</p>
Conducting artificial insemination	<p>To be competent, the individual on the job must be able to:</p> <p>PC3. detect heat in animals such as goats and pigs.</p> <p>PC4. use semen of appropriate quality and blood level.</p> <p>PC5. follow protocols pertaining to farm bio-security, safety, hygiene and animal welfare.</p> <p>PC6. follow the prescribed procedures in handling semen straw and in conducting insemination.</p> <p>PC7. conduct artificial insemination in time.</p>
Assistance to farmers on management of unproductive animals.	<p>To be competent, the individual on the job must be able to:</p> <p>PC8. guide farmers / clients on common infertility issues and their handling</p> <p>PC9. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation etc.</p> <p>PC10. guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.</p>
Post insemination support , data recording and Performance monitoring of breeding services	<p>To be competent, the individual on the job must be able to:</p> <p>PC11. guide / assist farmer in handling common difficulties related to animal birth.</p> <p>PC12. use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.</p> <p>PC13. provide organization with standard required information such as semen used; time of heat, time of insemination, kid / piglet born etc. needed to monitor breeding services.</p>
Knowledge and Understanding (K)	

AGR/N4821

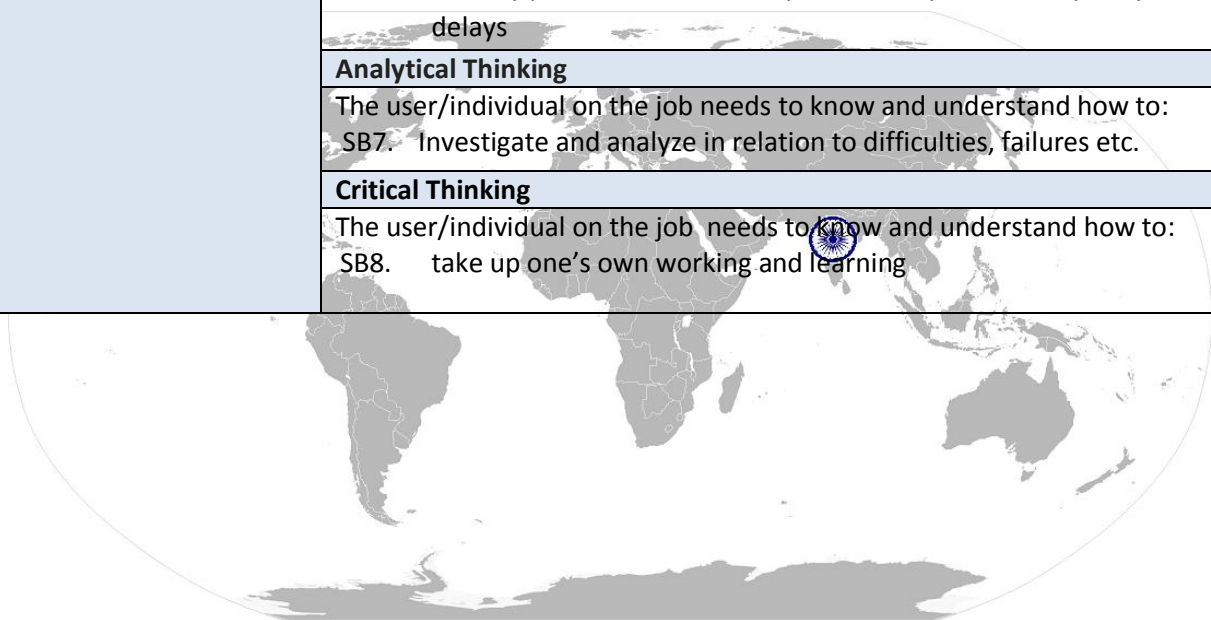
Implementation of animal breeding services in small farm animals

<p>A. Organizational Context (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. relevant legislation, standards, policies, and procedures in work</p> <p>KA2. relevant health and safety requirements applicable in the work environment</p> <p>KA3. own job role and responsibilities and sources for information pertaining to work</p> <p>KA4. who to approach for support in order to obtain work related information, clarifications and support</p> <p>KA5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business</p> <p>KA6. documentation and related procedures applicable in the context of work</p>
<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. relevant organizational policy on breeding.</p> <p>KB2. understanding of supervisory / reporting structure</p> <p>KB3. basic of reproductive physiology e.g. estrous cycle, signs etc. and anatomy of reproductive organs in goat, pigs etc.</p> <p>KB4. basic of genetics e.g. selective breeding / cross breeding</p> <p>KB5. semen straw handling procedure and safety requirement in handling of liquid nitrogen.</p> <p>KB6. protocols related to farm bio-security, hygiene, safety and animal welfare.</p> <p>KB7. technical procedure of artificial insemination.</p> <p>KB8. feeding of breeding animals, mineral supplementation etc.</p> <p>KB9. common animal birth related difficulties in small animals and handling of same.</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare a brief case report.</p> <p>SA2. fill monitoring related forms etc.</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. read government / organizational guideline / manuals.</p> <p>SA4. read label of semen straws.</p> <p>SA5. read manufacturer guideline of various common equipment uses in breeding services.</p> <p>SA6. read directives from government / organization / supervising veterinarians.</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA7. discuss task lists, schedules, etc. with co-workers</p> <p>SA8. explain farmers / clients on artificial insemination procedures.</p> <p>SA9. give clear suggestions / guidance to farmers / clients.</p>
<p>B. Professional Skills</p>	<p>Decision Making</p>

AGR/N4821

Implementation of animal breeding services in small farm animals

	The user/individual on the job needs to know and understand how to: SB1. make decisions related to time, appropriate application of artificial insemination technologies etc.
	Plan and Organize
	The user/individual on the job needs to know and understand:how to SB2. plan various procedures. SB3. use electronic / mobile tools (where available) to record and send breeding related data to servers
	Customer Centricity.
	The user/individual on the job needs to know and understand how to: SB4. manage relationships with laborers and other co-farmers SB5. build relationships and use human centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. identify problems immediately and take up solutions quickly to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB7. Investigate and analyze in relation to difficulties, failures etc.
	Critical Thinking
The user/individual on the job needs to know and understand how to: SB8. take up one's own working and learning	

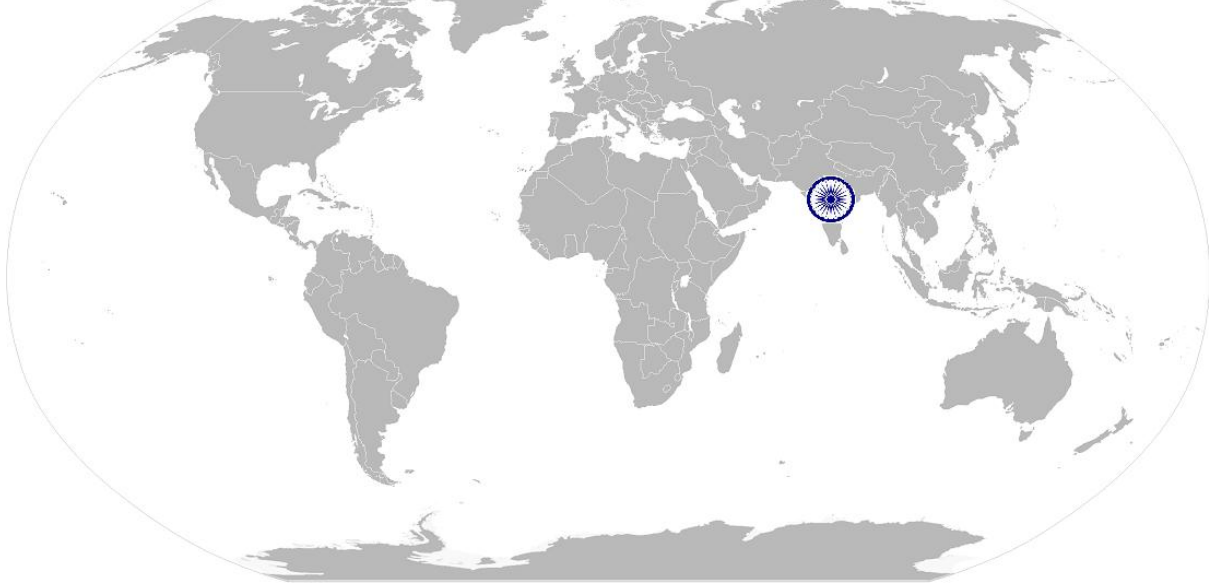


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NOS Version control

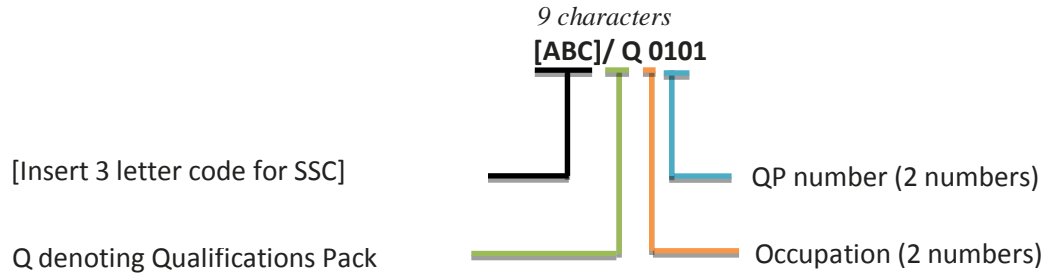
NOS Code	AGR/N4821		
Credits (NSQF)	TBD	Version number	1.0
Industry	Agriculture & Allied	Drafted on	09/12/14
Industry Sub-sector	Animal Husbandry	Last reviewed on	14/06/17
Occupation	Livestock Health Management	Next review date	14/06/21



Annexure

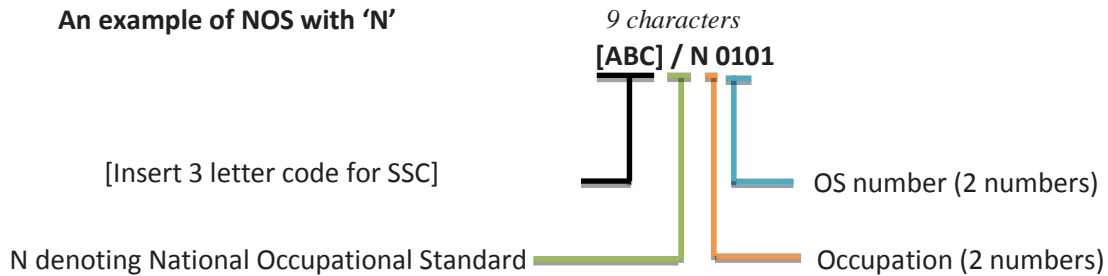
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'



The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Agriculture Crop Production	01 – 40
Dairying	41 – 42
Poultry	43 – 44
Animal Husbandry	45 – 48
Fisheries	49 – 51
Agriculture Allied Activities	52 – 60
Forestry, Environment and Renewable Energy Management	61 - 70
Agriculture Industries	71 – 90
Generic Occupations	96 - 99

Sequence	Description	Example
Three letters	Industry name	AGR
Slash	/	/
Next letter	Whether QP or NOS	Q or N
Next two numbers	Occupation code	01
Next two numbers	OS number	01

Note:

- The range of occupation numbers have been decided based on the number of existing and future occupations in a segment
- Occupation numbers from 91 – 95 have been intentionally left blank to accommodate any emerging segment in future.

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Animal Health Worker

Qualification Pack: AGR/Q4804

Sector Skill Council: Agriculture

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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (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 criterion.
5. To pass the Qualification Pack , every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
6. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Total Mark (800)	Out Of	Marks Allocation	
				Theory	Skills Practical
1.AGR/N480 1:Controlling / restraining of animals	PC1. prepare and make the animal to cooperate during handling.	100	20	5	15
	PC2.determine flight zone and point of balance of the animal and approach, hold animal securely and safely.		15	5	10
	PC3.achieve minimum stress and injury to the animal.		5	3	2
	PC4.ensure zero accident.		5	3	2
	PC5.to be able to follow the prescribed procedures related to each tools and equipment.		30	5	25
	PC6.protect oneself from any physical injury arising out of animal handling		5	3	2

	PC7.use various personal protective materials / equipment.		10	5	5
	PC8.assess the risk of diseases which can be transmitted from animal to human.		10	5	5
			100	34	66
2.AGR/N480 2 Implementin g regular preventive animal health care program	PC1.use point of care / field data collection tools (including electronic / mobile based data collection) as per given specifications.		5	1	4
	PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.		5	1	4
	PC3.regularly collect and submit health, production and breeding data related to attended individual / herd of animals to appropriate authority on time as per given format / criteria.		5	0	5
	PC4.undertake appropriate action which is just for a farmer / client as far as preventing occurrence of preventable known disease(s) in his / her animal / farm is /are concerned.		5	1	4
	PC5.take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s).		5	2	3
	PC6.create future demand for preventive services by appropriately communicating the risk.		5	1	4
	PC7.Ensure high rate of voluntary compliance of bio-security norms.		7	1	6
	PC8.schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.	100	5	2	3

	PC9. identify sick animals or animals not fit for vaccination.		5	1	4
	PC10.be prepared to face any emergency situation following vaccination.		5	1	4
	PC11.report side-effect (if any)		5	1	4
	PC12.conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.		5	2	3
	PC13.ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.		5	2	3
	PC14.rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.		5	2	3
	PC15.follow all scientific guideline related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines etc.		10	1	9
	PC16. follow local area guideline regarding species, age and season of de-worming.		5	0	5
	PC17.use only permissible products, following appropriate dose and procedure of administration (As per directive of supervising veterinarian)		2	2	0
	PC18.use only permissible products, following appropriate dose and procedure of use / application.		2	2	0
	PC19. ensure scale of operation by involving maximum number of farmers in a given area.		1	1	0
	PC20. take precaution for minimum effect on animal / immediate environment.		2	0	2

	PC21.ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.		2	1	1
	PC22.timely report vaccine failure to appropriate authority as per format.		1	1	0
	PC23.support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.		2	0	2
	PC24.ensure herd coverage and continuity of vaccination program.		1	1	0
			100	27	73
3.AGR/N480 5 Veterinary first aid	PC1.prepare aseptic solution		5	2	3
	PC2.diagnose emergency situation and use common suggested medications / follow precautions as per manual.		25	10	15
	PC3.describe common symptoms of diseases in animals and report accordingly.		15	8	7
	PC4.identify common infectious / scheduled animal diseases and ensure timely reporting of the same.		7	5	2
	PC5. identify from symptoms the cause of the accident.		8	2	6
	PC6.assess the severity of the accident and suggest for consultation with veterinarian.		5	5	0
	PC7.provide basic / immediate care as specified for each type of accidents.		15	5	10
	PC8.to be able to stop bleeding, clean and protect the wound.		10	2	8
	PC9. to be able to ensure aseptic handling and protection of the prolapsed organ(s) before the arrival of veterinarian.	100	10	2	8

			100	41	59
4.AGR/N480 7 Assisting government agencies in animal disease control	PC1. relate to multiple factors that can predispose or cause spread of diseases.		8	8	0
	PC2.appreciate the 'one health approach' in controlling diseases and cooperate with partnering agencies (s).		5	5	0
	PC3.Ensure local resources (e.g. support materials, skills and abilities of local people) to strengthen government effort at reaching out to farmers for events like vaccination camps etc.		7	3	4
	PC4.update government records on livestock markets / farms.		5	5	0
	PC5. engage with officials of local self-government and market institutions.		8	5	3
	PC6.guide implementation of approved government guideline related to market operation, cleaning etc.		8	2	6
	PC7.describe routes in relation to approved maps / known border areas.		5	3	2
	PC8.apply judgment regarding nature of trade / frequency of movement / animal holding areas, volume etc.		5	0	5
	PC9.report animal movement as per standard format.		5	3	2
	PC10.understand common activities from farm to fork, relationships between various types of people, movement of goods in livestock / poultry related business.		5	3	2
	PC11identify risky practices and report to veterinarians / superior officers.		8	5	3
	PC12.follow directive and guideline.		5	5	0
	PC13.use standard format for reporting.	100	5	5	0

	PC14. ensure humane culling methods		8	3	5
	PC15. ensure scientific disposal of culled carcasses as per guideline.		8	3	5
	PC16 ensure use of appropriate disinfectant and adoption to prescribed procedure of application.		3	0	3
	PC17.ensure coverage of areas / farms as per suggestion of government authority.		2	2	0
			100	60	40
5.AGR/N480 8 Assisting in veterinary extension services	PC1.understand and explain the applicability and benefit associated with common approved technology(s) / best practice(s) in the context of local situations, opportunities and constraints.		35	10	25
	PC2.give feedback on technology application in field and need for improvement (if any).		10	2	8
	PC3.organize extension events based on farmer convenience and seasonal suitability.		15	2	13
	PC4.understand and explain quality parameters regarding various farm inputs.		10	5	5
	PC5.scout sources, plan and organize farmers for intelligent (timely, quality and cost based) procurement of inputs.		10	3	7
	PC6.keep record that can help make farmer meeting and farm school activities 'targeted' and 'need based'		10	2	8
	PC7.use modern communication devices, audio-visual aids to explain farmers / clients.	100	10	1	9
			100	25	75

6.AGR/N4810 Development program implementation and marketing in livestock sector	PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the promoted project / program.		10	5	5
	PC2.work with selected project beneficiaries in implementing activities as envisaged in promoted programs.		10	4	6
	PC3.attend and cooperate during meetings / programs of farmer's institutions / panchayats.		10	3	7
	PC4.inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries.		10	2	8
	PC5.facilitate organizations's / panchayat's endeavor to ensure convergence of development projects for synergy.		5	5	0
	PC6.motivate and handhold formation of self-help groups.		15	5	10
	PC7.guide farmers on business options and basic economics of various livestock linked activities.		15	6	9
	PC8.motivate farmers to produce for market and ensure aggregation, collective marketing of livestock products.		10	5	5
	PC9.provide market related e.g. prices etc. information to farmers.		7	2	5
	PC10.provide information on livestock farm inputs e.g. feed, fodder, supplements etc.	100	8	8	0
			100	45	55
7.AGR/N4813 Assisting in animal welfare, breed conservation	PC1.explain the cruelty for effective reporting.		10	5	5
	PC2.explain stakeholders on common prevention and protection strategies related to common conflict situation.	100	10	4	6

n and disaster management	PC3.scout and engage with interested breeding farms / goshala's (Protective shelters for cows in India) for conservation of purebred animals.		10	5	5
	PC4.help in stocking (as a preparedness) and mobilization of feed / fodder at the time of disasters.		10	2	8
	PC5.work with community and disaster management authorities to provide safe passage to animals / livestock.		25	10	15
	PC6.provide care / shelter to animal in distress		15	5	10
	PC7.undertake appropriate measures for carcass disposal.		10	2	8
	PC8.undertake culling and other measures suggested in case of disease related emergencies.		10	5	5
				100	38
8.AGR/N482 1 Implementation of animal breeding services in small farm animals (if required)	PC1 help farmers / clients with information on sources of good breeding animals.		10	2	8
	PC2.assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose.		10	5	5
	PC3.detect heat in animals such as goat and pigs.		10	5	5
	PC4.use semen of appropriate quality and blood level.		5	5	0
	PC5.follow protocols pertaining to farm bio-security, safety, hygiene and animal welfare.		10	5	5
	PC6.follow the prescribed procedures in handling semen straw and in conducting insemination.		20	8	12
	PC7. conduct artificial insemination in time.		5	5	0
	PC8.guide farmers / clients on common infertility issues and their handling	100	5	5	0

	PC9.guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation etc.		5	5	0
	PC10.guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.		5	2	3
	PC11.guide / assist farmer in handling common difficulties related to animal birth.		5	1	4
	PC12.use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.		5	1	4
	PC13.provide organization with standard required information such as semen used; time of heat, time of insemination, kid / piglet born etc. needed to monitor breeding services.		5	1	4
			100	50	50