Animal Health Worker

QP Code: AGR/Q4804

Version: 1.0

NSQF Level: 3

Agriculture Skill Council of India || 6th Floor, GNG Tower, Plot No. 10, Sector -44, Gurgaon Haryana-122004 || email:shrinkhala@asci-india.com

Contents

AGR/Q4804: Animal Health Worker

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. S/he also plays 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. S/he should be physically strong and have manual dexterity to perform on the job.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [AGR/N4801: Controlling and restraining of animals.](#)

2. [AGR/N4802: Implementing regular preventive animal health care program](#)

3. [AGR/N4805: Veterinary First Aid](#)

4. [AGR/N4807: Assisting government agencies in animal disease control.](#)

5. [AGR/N4808: Assisting in veterinary extension Services](#)

6. [AGR/N4810: Development program implementation and marketing in livestock sector](#)

7. [AGR/N4813: Assisting in animal welfare , breed conservation and disaster management.](#)

8. [AGR/N4821: Implementation of animal breeding services in small farm animals (if required)](#)

Qualification Pack (QP) Parameters

Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
Country	India

NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/NIL
Minimum Educational Qualification & Experience	8th Class with 1-2 Years of experience Experience in community/village level work is preferable.
Minimum Level of Education for Training in School	8th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	17 Years
Last Reviewed On	14/06/2017
Next Review Date	31/03/2022
NSQC Approval Date	18/06/2015
Version	1.0
Reference code on NQR	2015/AGR/ASCI/00234
NQR Version	1.0

AGR/N4801: Controlling and 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:-Various aspects such as understanding of animal behavior and responses, application of safety guidelines and use of tools and equipment.

Elements and Performance Criteria

Understand normal animal behavior , stimulus and responses of handled species

To be competent, the user/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 user/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 anima

PC4. ensure zero accident.

Use of tools and equipment to restrain animals

To be competent, the user/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 user/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 (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7.   relevant organizational policy on health event reporting / record keeping.

KU8.   understanding of supervisory structure

KU9.   basics of animal behavior, possible stimulus and negative responses.

KU10.   safety guidelines in animal handling.

KU11.   knowledge of flight zone, point of balance and procedure of holding animal securely and safely

KU12.   knowledge related to appropriate use of tools and equipment to restrain animals

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1.   prepare a brief case report.

GS2.   fill data sheet / health monitoring proforma

GS3.   read government / organizational guideline / manuals.

GS4.   keep abreast with the latest knowledge by reading brochures, pamphlets, and other animal behavior and handling related information sheets.

GS5.   read directives from government / organization / supervising veterinarians.

GS6.   discuss task lists, schedules, etc. with co-workers

GS7.   explain farmers / clients on use of tools / equipment in restraining.

GS8.   give clear suggestions / guidance to farmers / clients

GS9.   make decisions related to use of techniques / tools and equipment based on animal behavior.

GS10.   plan various procedures

GS11.   attend and make use of exposure visit

GS12.   work with organic farming experts

GS13.   manage relationships with laborers and other co-farmers

GS14.   identify problems immediately and take up solutions quickly to resolve delays

GS15.   investigate and analyze stimuli and animal behavior.

GS16.   take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Understand normal animal behavior , stimulus and responses of handled species	**5**	**15**	**-**	**-**
PC1. prepare and make the animal to cooperate during handling	5	15	-	-
Apply general principles of animal handling and safety guidelines.	**8**	**17**	**-**	**-**
PC2. determine flight zone and point of balance of the animal and approach, hold animal securely and safely.	2	13	-	-
PC3. achieve minimum stress and injury to the anima	3	2	-	-
PC4. ensure zero accident.	3	2	-	-
Use of tools and equipment to restrain animals	**5**	**25**	**-**	**-**
PC5. follow the prescribed procedures related to each tools and equipment	5	25	-	-
Understanding of safety issues in the work environment	**13**	**12**	**-**	**-**
PC6. protect oneself from any physical injury arising out of animal handling	3	2	-	-
PC7. use various personal protective materials / equipment.	5	5	-	-
PC8. assess the risk of diseases which can be transmitted from animal to human	5	5	-	-
NOS Total	**31**	**69**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4801
NOS Name	Controlling and restraining of animals.
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4802: Implementing regular preventive animal health care program

Description

This OS unit is about providing preventive animal health care.

Elements and Performance Criteria

Animal data recording

To be competent, the user/individual on the job must be able to:

PC1. use point of care / field data collection tools (including electronic / mobile based data collection) as per given specifications.

PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.

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.

Risk assessment and identification of preventable endemic disease

To be competent, the user/individual on the job must be able to:

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

Review of standing technical guideline on control of scheduled / notified disease

To be competent, the user/individual on the job must be able to:

PC5. take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s)

Communication of business / health risk and bio-security related information to client

To be competent, the user/individual on the job must be able to:

PC6. create future demand for preventive services by appropriately communicating the risk.

PC7. ensure high rate of voluntary compliance of bio-security norms

Scheduling of vaccination program

To be competent, the user/individual on the job must be able to:

PC8. schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.

Pre and post vaccination care

To be competent, the user/individual on the job must be able to:

PC9. identify sick animals or animals not fit for vaccination.

PC10. be prepared to face any emergency situation following vaccination.

PC11. report side-effect (if any)

Handling and Administration of vaccines

To be competent, the user/individual on the job must be able to:

PC12. conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.

PC13. ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.

PC14. rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.

PC15. follow all scientific guideline related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines etc.

Preventive de-worming.

To be competent, the user/individual on the job must be able to:

PC16. follow local area guideline regarding species, age and season of de-worming.

PC17. use only permissible products, following appropriate dose and procedure of administration (as per directive of supervising veterinarian)

Spraying of animals / birds or use of other method for control of ecto-parasites

To be competent, the user/individual on the job must be able to:

PC18. use only permissible products, following appropriate dose and procedure of use / application.

PC19. ensure scale of operation by involving maximum number of farmers in a given area.

PC20. take precaution for minimum effect on animal / immediate environment.

Record keeping of preventive interventions, monitoring and follow up

To be competent, the user/individual on the job must be able to:

PC21. ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.

PC22. timely report vaccine failure to appropriate authority as per format.

PC23. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.

PC24. ensure herd coverage and continuity of vaccination program.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant government / organizational guideline pertaining to preventive care procedure, use of products and reporting structure etc.

KU8. impact / importance of preventive care program vis a vis organizational mandate.

KU9. importance of data recording / monitoring vis a vis evaluation of preventive care program.

KU10. funding and cost implication / benefit of preventive intervention

KU11. use of data collection tool (including electronic)

KU12. the prevalent farming system, social, geographical / environmental condition of service area

KU13. prevalent diseases vis a vis affected species within the service area which can be prevented

KU14. symptoms, period of prevalence, pre-disposing factors.

KU15. impact of such disease(s) and its geographical spread.

KU16. pre-and post-vaccination care including handling of possible emergenicies

KU17. type of vaccine and ways, importance of maintaining cool chain.

KU18. availability of vaccines within given geographical area, storage and use (e.g. reconstitution etc.)

KU19. scientific procedure of vaccine administration.

KU20. environmental effect of chemicals used for control of ecto-parasite control

KU21. basic concept of herd immunity and measurement of same.

KU22. basic concepts of disease prevention in wild free range animals.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report / write email at least in local language

GS2. fill data sheet.

GS3. read government / organizational guideline.

GS4. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets.

GS5. read government / organizational communications.

GS6. discuss task lists, schedules, etc. with co-workers

GS7. ask question and listen to farmers / clients to collect required data.

GS8. give clear suggestions / guidance to farmers / clients.

GS9. make decisions pertaining to the concerned area of work.

GS10. plan activities and carry them through effectively involving farmers / clients.

GS11. follow given procedures.

GS12. use communication tools

GS13. participate in organic farming exhibition/seminar/workshop

GS14. attend and make use of exposure visit

GS15. work with organic farming experts

GS16. solve problem arising out of implementation / scheduling of activities

GS17. gather information systematically to establish a fact.

GS18. take up his own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Animal data recording	**2**	**13**	**-**	**-**
PC1. use point of care / field data collection tools (including electronic / mobile based data collection) as per given specifications.	1	4	-	-
PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.	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	-	-
Risk assessment and identification of preventable endemic disease	**1**	**4**	**-**	**-**
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	1	4	-	-
Review of standing technical guideline on control of scheduled / notified disease	**2**	**3**	**-**	**-**
PC5. take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s)	2	3	-	-
Communication of business / health risk and bio-security related information to client	**2**	**10**	**-**	**-**
PC6. create future demand for preventive services by appropriately communicating the risk.	1	4	-	-
PC7. ensure high rate of voluntary compliance of bio-security norms	1	6	-	-
Scheduling of vaccination program	**2**	**3**	**-**	**-**
PC8. schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.	2	3	-	-
Pre and post vaccination care	**3**	**12**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC9. identify sick animals or animals not fit for vaccination.	1	4	-	-
PC10. be prepared to face any emergency situation following vaccination.	1	4	-	-
PC11. report side-effect (if any)	1	4	-	-
Handling and Administration of vaccines	**7**	**18**	**-**	**-**
PC12. conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.	2	3	-	-
PC13. ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.	2	3	-	-
PC14. rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.	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.	1	9	-	-
Preventive de-worming.	**2**	**5**	**-**	**-**
PC16. follow local area guideline regarding species, age and season of de-worming.	-	5	-	-
PC17. use only permissible products, following appropriate dose and procedure of administration (as per directive of supervising veterinarian)	2	-	-	-
Spraying of animals / birds or use of other method for control of ecto-parasites	**3**	**2**	**-**	**-**
PC18. use only permissible products, following appropriate dose and procedure of use / application.	2	-	-	-
PC19. ensure scale of operation by involving maximum number of farmers in a given area.	1	-	-	-
PC20. take precaution for minimum effect on animal / immediate environment.	-	2	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Record keeping of preventive interventions, monitoring and follow up	**3**	**3**	-	-
PC21. ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.	1	1	-	-
PC22. timely report vaccine failure to appropriate authority as per format.	1	-	-	-
PC23. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.	-	2	-	-
PC24. ensure herd coverage and continuity of vaccination program.	1	-	-	-
NOS Total	**27**	**73**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4802
NOS Name	Implementing regular preventive animal health care program
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4805: Veterinary First Aid

Description

This OS unit is about veterinary first Aid

Scope

This unit/task covers:-Various aspects of first aid including immediate relief and treatment of noninfectious emergency conditions and accidents.

Elements and Performance Criteria

Cleaning and washing of muzzle, mouth, hooves, feet etc. with antiseptic solutions

To be competent, the user/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 user/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 user/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 user/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 user/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 (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational policy on health event reporting / record keeping.

KU8. understanding of supervisory structure

KU9. basics of emergency conditions in animal along with pre-disposing factors

KU10. nature of wounds vis a vis procedure of cleaning and protection

KU11. uses and doses of common medications in emergency situations.

KU12. common approaches in handling poisoning and natural calamities.

KU13. ways to differentiate a diseased animal from a healthy animal.

KU14. major symptoms of common scheduled diseases.

KU15. use of approved ethno-veterinary practices.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. fill data sheet / health monitoring proforma

GS2. read government / organizational guideline / manuals.

GS3. read directives from government / organization / supervising veterinarians.

GS4. discuss task lists, schedules, etc. with co-workers

GS5. explain farmers / clients on presented symptoms / emergency condition.

GS6. give clear suggestions / guidance to farmers / clients.

GS7. make decisions related to use of medication out of permitted assortments

GS8. relate emergency situation to immediate events in surrounding environment

GS9. participate in organic farming exhibition/seminar/workshop

GS10. attend and make use of exposure visit

GS11. identify problems immediately and take up solutions quickly to resolve delays

GS12. monitor and maintain the material and equipment required for various farm operations

GS13. take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Cleaning and washing of muzzle, mouth, hooves, feet etc. with antiseptic solutions	**2**	**3**	-	-
PC1. prepare aseptic solution.	2	3	-	-
Treatment of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc	**23**	**24**	-	-
PC2. diagnose emergency situation and use common suggested medications / follow precautions as per manual.	10	15	-	-
PC3. describe common symptoms of diseases in animals and report accordingly.	8	7	-	-
PC4. identify common infectious / scheduled animal diseases and ensure timely reporting of the same.	5	2	-	-
Provide immediate support to accidental situations like poisoning, sun-stroke, electrocution, burn injuries etc.	**12**	**16**	-	-
PC5. identify from symptoms the cause of the accident.	2	6	-	-
PC6. assess the severity of the accident and suggest for consultation with veterinarian.	5	-	-	-
PC7. provide basic / immediate care as specified for each type of accidents.	5	10	-	-
Handling of superficial wound and trauma.	**2**	**8**	-	-
PC8. to be able to stop bleeding, clean and protect the wound	2	8	-	-
Initial support in cases like prolapse of uterus	**2**	**8**	-	-
PC9. to be able to ensure aseptic handling and protection of the prolapsed organ(s) before the arrival of veterinarian	2	8	-	-
NOS Total	**41**	**59**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4805
NOS Name	Veterinary First Aid
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4807: 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:-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.

Elements and Performance Criteria

Assisting in implementation of collaborative activities / data gathering including that under One Health related programs

To be competent, the user/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 user/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 user/individual on the job must be able to:

PC4. update government records on livestock markets / farms.

Implementing bio-security norms within identifies area / livestock market / farms as per guideline.

To be competent, the user/individual on the job must be able to:

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 user/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 user/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

To be competent, the user/individual on the job must be able to:

PC12. follow directive and guideline.

Reporting of disease incidence / outbreak.

To be competent, the user/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 user/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 user/individual on the job must be able to:

PC16. ensure use of appropriate disinfectant and adoption to prescribed procedure of application.

PC17. ensure coverage of areas / farms as per suggestion of government authority.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational policy on health event reporting / record keeping

KU8. reporting structure

KU9. basics concept of one health and its importance.

KU10. ways of disease transmission, concept of bio-security control in livestock markets / farms.

KU11. various activities, relationship of people of livestock / poultry business from farm to fork along with risky common practices.

KU12. linkage between risky practices / animal movement and disease transmission.

KU13. culling, disposal and disinfection methods.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report.

GS2. fill data sheet

GS3. read government / organizational guideline / manuals.

GS4. keep abreast with the latest knowledge of disease outbreaks etc. by reading brochures, pamphlets, websites etc.

GS5. read directives from government / organization / supervising veterinarians.

GS6. discuss task lists, schedules, etc. with co-workers

GS7. explain farmers and other stakeholders on importance of addressing risky practices for disease control

GS8. give clear suggestions / guidance to farmers / clients.

GS9. make early decisions related reporting of disease outbreaks

GS10. plan various activities

GS11. send email and enter data to database as per given format

GS12. attend and make use of exposure visit

GS13. work with organic farming experts

GS14. manage relationships with laborers and other co-farmers

GS15. identify problems immediately and take up solutions quickly to resolve delay

GS16. think through the problem, evaluate the possible solution(s) and adopt an optimum /best possible solution(s)

GS17. investigate and analyze livestock value chain activities.

GS18. take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Assisting in implementation of collaborative activities / data gathering including that under One Health related programs	**13**	**-**	**-**	**-**
PC1. relate to multiple factors that can predispose or cause spread of diseases.	8	-	-	-
PC2. appreciate the one health approach in controlling diseases and cooperate with partnering agencies (s).	5	-	-	-
Providing leadership for local resource mobilization and partnership	**3**	**4**	**-**	**-**
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.	3	4	-	-
Implementing bio-security norms within identifies area / livestock market / farms as per guideline	**5**	**-**	**-**	**-**
PC4. update government records on livestock markets / farms.	5	-	-	-
Implementing bio-security norms within identifies area / livestock market / farms as per guideline.	**7**	**9**	**-**	**-**
PC5. engage with officials of local self-government and market institutions.	5	3	-	-
PC6. guide implementation of approved government guideline related to market operation, cleaning etc.	2	6	-	-
Recording and reporting of animal movement route (including cross border movement)	**6**	**9**	**-**	**-**
PC7. describe routes in relation to approved maps / known border areas.	3	2	-	-
PC8. apply judgment regarding nature of trade / frequency of movement / animal holding areas, volume etc.	-	5	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC9. report animal movement as per standard format	3	2	-	-
Creating awareness on livestock value chain / transport related risky practices.	**8**	**5**	**-**	**-**
PC10. understand common activities from farm to fork, relationships between various types of people, movement of goods in livestock / poultry related business	3	2	-	-
PC11. identify risky practices and report to veterinarians / superior officers.	5	3	-	-
Administration of preventive herd level medication	**5**	**-**	**-**	**-**
PC12. follow directive and guideline.	5	-	-	-
Reporting of disease incidence / outbreak.	**5**	**-**	**-**	**-**
PC13. use standard format for reporting	5	-	-	-
Supervise culling and disposal of animal / bird	**6**	**10**	**-**	**-**
PC14. ensure humane culling methods.	3	5	-	-
PC15. ensure scientific disposal of culled carcasses as per guideline	3	5	-	-
Supervise disinfection of farm premise / local area	**2**	**3**	**-**	**-**
PC16. ensure use of appropriate disinfectant and adoption to prescribed procedure of application.	-	3	-	-
PC17. ensure coverage of areas / farms as per suggestion of government authority.	2	-	-	-
NOS Total	**60**	**40**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4807
NOS Name	Assisting government agencies in animal disease control.
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4808: Assisting in veterinary extension Services

Description

This OS unit is about assisting organization in conducting veterinary extension related activities.

Elements and Performance Criteria

Promoting approved technology and best practices (including organic practices) in livestock farming, handling of animal products.

To be competent, the user/individual on the job must be able to:

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 user/individual on the job must be able to:

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 user/individual on the job must be able to:

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 user/individual on the job must be able to:

PC7. use modern communication devices, audio-visual aids to explain farmers / clients.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational policy, products and services.

KU8. supervisory structure.

KU9. common popular production / processing technologies in livestock / poultry farming / product handling.

KU10. common feed ingredients / fodder variety and their uses.

KU11. organoleptic testing of feed.

KU12. basic body scoring methods and selection of animals.

KU13. basics of animal housing and farm infrastructure.

KU14. use of communication devices.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief field program report.

GS2. fill data sheet and survey form.

GS3. read government / organizational guideline / manuals.

GS4. keep abreast with the latest knowledge / technologies by reading brochures, pamphlets, and other related information sheets.

GS5. read directives from government / organization / supervising veterinarians

GS6. discuss task lists, schedules, etc. with co-workers

GS7. explain farmers / clients on use of various technologies.

GS8. give clear suggestions / guidance to farmers / clients.

GS9. make decisions related to suitability of any technology based on local situations.

GS10. plan for various extension events.

GS11. use electronic communication / presentation tools

GS12. attend and make use of exposure visit

GS13. manage relationships with laborers and other co-farmers

GS14. investigate and analyze adopted technologies and provide feedback to supervising veterinarian / scientist

GS15. identify problems immediately and take up solutions quickly to resolve delays

GS16. take up his own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Promoting approved technology and best practices (including organic practices) in livestock farming, handling of animal products.	**14**	**46**	**-**	**-**
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.	10	25	-	-
PC2. give feedback on technology application in field and need for improvement (if any).	2	8	-	-
PC3. organize extension events based on farmer convenience and seasonal suitability	2	13	-	-
Assist farmers on quality farm input selection and procurement.	**8**	**12**	**-**	**-**
PC4. understand and explain quality parameters regarding various farm inputs.	5	5	-	-
PC5. scout sources, plan and organize farmers for intelligent (timely, quality and cost based) procurement of inputs	3	7	-	-
Assist in maintaining record of farmer meeting / farm school activities	**2**	**8**	**-**	**-**
PC6. keep record that can help make farmer meeting and farm school activities targeted and need based	2	8	-	-
Use of mobile and other technology for extension / client education	**1**	**9**	**-**	**-**
PC7. use modern communication devices, audio-visual aids to explain farmers / clients.	1	9	-	-
NOS Total	**25**	**75**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4808
NOS Name	Assisting in veterinary extension Services
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4810: 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 :-Basics of development program implementation such as empowerment / awareness creation, engagement with stakeholders and promotion of economic activities

Elements and Performance Criteria

Facilitation of implementation of government / private development programs.
To be competent, the user/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 user/individual on the job must be able to:

PC3. attend and cooperate during meetings / programs of farmers institutions / panchayats.

PC4. inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries.

Facilitation of agri-livestock related economic activity of self-help groups
To be competent, the user/individual on the job must be able to:

PC5. facilitate organizationss / panchayats endeavor to ensure convergence of development projects for synergy.

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 user/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 (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

![ASCI - Agriculture Skill Council of India]

सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

Qualification Pack

NSDC
National Skill Development Corporation
Transforming the skill landscape

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational policy and programs.

KU8. basics of development project management.

KU9. guideline on self-help group / producer company formation and functioning.

KU10. common livestock based business activities and economics thereof.

KU11. basic understanding of common rural development programs of the government.

KU12. basics of marketing and markets in the context of livestock products.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report.

GS2. read government / organizational guideline / manuals.

GS3. keep abreast with the latest information / knowledge on rural development livestock market by reading new papers, magazines etc.

GS4. read directives from reporting government / private organization

GS5. discussand explain benefit / outcome development programs.

GS6. listenand comprehend farmers problems and suggestions

GS7. plan activities

GS8. use electronic gadgets to promote programs / projects and engage with farmers / clients.

GS9. attend and make use of exposure visit

GS10. manage relationships with laborers and other co-farmers

GS11. follow basic arithmetic and algebraic principles

GS12. identify problems immediately and take up solutions quickly to resolve delays

GS13. investigate and analyze opportunities and difficulties in program implementation.

GS14. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action

GS15. take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Facilitation of implementation of government / private development programs.	**6**	**14**	**-**	**-**
PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the promoted project / program.	4	6	-	-
PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs.	2	8	-	-
Engagement with farmers institutions and local self-government (Panchayat)	**4**	**16**	**-**	**-**
PC3. attend and cooperate during meetings / programs of farmers institutions / panchayats.	2	8	-	-
PC4. inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries.	2	8	-	-
Facilitation of agri-livestock related economic activity of self-help groups	**15**	**20**	**-**	**-**
PC5. facilitate organizationss / panchayats endeavor to ensure convergence of development projects for synergy.	5	-	-	-
PC6. motivate and handhold formation of self-help groups.	5	10	-	-
PC7. guide farmers on business options and basic economics of various livestock linked activities	5	10	-	-
Facilitation of marketing of livestock farm inputs / products	**15**	**10**	**-**	**-**
PC8. motivate farmers to produce for market and ensure aggregation, collective marketing of livestock products.	5	5	-	-
PC9. provide market related e.g. prices etc. information to farmers.	2	5	-	-

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP
Qualification Pack

NSDC National Skill Development Corporation
Transforming the skill landscape

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. provide information on livestock farm inputs e.g. feed, fodder, supplements etc.	8	-	-	-
NOS Total	**40**	**60**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4810
NOS Name	Development program implementation and marketing in livestock sector
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4813: 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:Animal welfare and conservation of animal resources besides preparedness for disasters.

Elements and Performance Criteria

Identifying and reporting of cruelty to animals / birds.

To be competent, the user/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 user/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 user/individual on the job must be able to:

PC3. scout and engage with interested breeding farms / goshalas (protective shelters for cows in india) for conservation of purebred animals

Supporting disaster preparedness and handling

To be competent, the user/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 (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational guideline on reporting and partnerships

KU8. importance of conservation and essential role of wildlife in ecosystem functioning.

KU9. common prevention and protection strategies in human animal conflict situations.

KU10. basic aspects of disaster management.

KU11. rules and regulation related to animal welfare and wild life conservation.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report.

GS2. read government / organizational guideline.

GS3. read directives from government / organization / supervising veterinarians

GS4. discuss task lists, schedules, etc. with co-workers

GS5. explain farmers / animal owners on disaster management issues

GS6. make decisions related to steps needed to protect the interest of livestock / animals in the event of disaster.

GS7. plan various activities.

GS8. use mobile / electronic gadgets helpful during disasters

GS9. manage relationships with laborers and other co-farmers

GS10. build relationships and use human centric approach

GS11. identify problems immediately and take up solutions quickly to resolve delays

GS12. investigate and analyze possible after-effect of disasters.

GS13. take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Identifying and reporting of cruelty to animals / birds.	**5**	**5**	**-**	**-**
PC1. explain the cruelty for effective reporting.	5	5	-	-
Supporting management of human animal conflict	**2**	**8**	**-**	**-**
PC2. explain stakeholders on common prevention and protection strategies related to common conflict situation.	2	8	-	-
Promotion of rearing of purebred indigenous animals	**5**	**5**	**-**	**-**
PC3. scout and engage with interested breeding farms / goshalas (protective shelters for cows in india) for conservation of purebred animals	5	5	-	-
Supporting disaster preparedness and handling	**15**	**55**	**-**	**-**
PC4. help in stocking (as a preparedness) and mobilization of feed / fodder at the time of disasters.	-	10	-	-
PC5. work with community and disaster management authorities to provide safe passage to animals / livestock.	3	22	-	-
PC6. provide care / shelter to animal in distress	5	10	-	-
PC7. undertake appropriate measures for carcass disposal.	2	8	-	-
PC8. undertake culling and other measures suggested in case of disease related emergencies.	5	5	-	-
NOS Total	**27**	**73**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4813
NOS Name	Assisting in animal welfare , breed conservation and disaster management.
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

AGR/N4821: 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

This unit/task covers: 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.

Elements and Performance Criteria

Maintenance of database of good animal breeders.

To be competent, the user/individual on the job must be able to:

PC1. help farmers / clients with information on sources of good breeding animals.

Assistance to farmers in quality animal selection / purchase

To be competent, the user/individual on the job must be able to:

PC2. assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose

Conducting artificial insemination

To be competent, the user/individual on the job must be able to:

PC3. detect heat in animals such as goat and pigs.

PC4. use semen of appropriate quality and blood level.

PC5. follow protocols pertaining to farm bio-security, safety, hygiene and animal welfare.

PC6. follow the prescribed procedures in handling semen straw and in conducting insemination.

PC7. conduct artificial insemination in time.

Assistance to farmers on management of unproductive animals.

To be competent, the user/individual on the job must be able to:

PC8. guide farmers / clients on common infertility issues and their handling

PC9. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation etc.

PC10. guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.

Post insemination support , data recording and Performance monitoring of breeding services

To be competent, the user/individual on the job must be able to:

PC11. guide / assist farmer in handling common difficulties related to animal birth.

PC12. use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.

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.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant legislation, standards, policies, and procedures in work

KU2. relevant health and safety requirements applicable in the work environment

KU3. own job role and responsibilities and sources for information pertaining to work

KU4. who to approach for support in order to obtain work related information, clarifications and support

KU5. importance of following health, hygiene, safety and quality standards and the impact of not following the standards on consumers and the business

KU6. documentation and related procedures applicable in the context of work

KU7. relevant organizational policy on breeding.

KU8. understanding of supervisory / reporting structure

KU9. basic of reproductive physiology e.g. estrous cycle, signs etc. and anatomy of reproductive organs in goat, pigs etc.

KU10. basic of genetics e.g. selective breeding / cross breeding

KU11. semen straw handling procedure and safety requirement in handling of liquid nitrogen.

KU12. protocols related to farm bio-security, hygiene, safety and animal welfare.

KU13. technical procedure of artificial insemination.

KU14. feeding of breeding animals, mineral supplementation etc.

KU15. common animal birth related difficulties in small animals and handling of same.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief case report.

GS2. fill monitoring related forms etc.

GS3. read government / organizational guideline / manuals.

GS4. read label of semen straws.

GS5. read manufacturer guideline of various common equipment uses in breeding services.

GS6. read directives from government / organization / supervising veterinarians.

GS7. discuss task lists, schedules, etc. with co-workers

GS8. explain farmers / clients on artificial insemination procedures.

GS9. give clear suggestions / guidance to farmers / clients

GS10. make decisions related to time, appropriate application of artificial insemination technologies etc

GS11. plan various procedures.

GS12. use electronic / mobile tools (where available) to record and send breeding related data to servers

GS13. manage relationships with laborers and other co-farmers

GS14. build relationships and use human centric approach

GS15. identify problems immediately and take up solutions quickly to resolve delays

GS16. investigate and analyze in relation to difficulties, failures etc.

GS17. take up ones own working and learning

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Maintenance of database of good animal breeders.	**2**	**8**	**-**	**-**
PC1. help farmers / clients with information on sources of good breeding animals.	2	8	-	-
Assistance to farmers in quality animal selection / purchase	**5**	**5**	**-**	**-**
PC2. assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose	5	5	-	-
Conducting artificial insemination	**28**	**22**	**-**	**-**
PC3. detect heat in animals such as goat and pigs.	5	5	-	-
PC4. use semen of appropriate quality and blood level.	5	-	-	-
PC5. follow protocols pertaining to farm bio-security, safety, hygiene and animal welfare.	5	5	-	-
PC6. follow the prescribed procedures in handling semen straw and in conducting insemination.	8	12	-	-
PC7. conduct artificial insemination in time.	5	-	-	-
Assistance to farmers on management of unproductive animals.	**12**	**3**	**-**	**-**
PC8. guide farmers / clients on common infertility issues and their handling	5	-	-	-
PC9. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation etc.	5		-	-
PC10. guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.	2	3	-	-
Post insemination support , data recording and Performance monitoring of breeding services	**3**	**12**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. guide / assist farmer in handling common difficulties related to animal birth.	1	4	-	-
PC12. use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.	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.	1	4	-	-
NOS Total	**50**	**50**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4821
NOS Name	Implementation of animal breeding services in small farm animals (if required)
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	14/06/2017
Next Review Date	31/03/2022
NSQC Clearance Date	18/06/2015

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1.Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) (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 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 these criteria.

5. In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

Minimum Aggregate Passing % at QP Level : 50

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
AGR/N4801.Controlling and restraining of animals.	31	69	-	-	100	10
AGR/N4802.Implementing regular preventive animal health care program	27	73	-	-	100	18
AGR/N4805.Veterinary First Aid	41	59	-	-	100	18
AGR/N4807.Assisting government agencies in animal disease control.	60	40	-	-	100	18
AGR/N4808.Assisting in veterinary extension Services	25	75	-	-	100	10
AGR/N4810.Development program implementation and marketing in livestock sector	40	60	-	-	100	10
AGR/N4813.Assisting in animal welfare , breed conservation and disaster management.	27	73	-	-	100	8
AGR/N4821.Implementation of animal breeding services in small farm animals (if required)	50	50	-	-	100	8
Total	**301**	**499**	**-**	**-**	**800**	**100**

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

Glossary

Sector	Sector is a conglomeration of different business operations having similar business 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.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications 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.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation 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/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment 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.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

Livestock Service Provider

Options: Implementation of animal breeding services in small farm animals (if required)

QP Code: AGR/Q4804

Version: 6.0

NSQF Level: 4

Agriculture Skill Council of India || 6th Floor, GNG Tower, Plot No. 10, Sector -44, Gurgaon Haryana-122004 || email:shrinkhala@asci-india.com

NSDC
National
Skill Development
Corporation

Transforming the skill landscape

Contents

AGR/Q4804: Livestock Service Provider

Brief Job Description

A Livestock Service Provider (LSP) also known as Community Animal Health Worker (CAHW) / Community Resource Person (Veterinary) or Animal Health Worker (AHW) is a person selected from his/her own community to provide livestock extension and development related services along with a set of "Minor Veterinary services" required for a given job role. The Minor Veterinary Services will be as per the notification under the Indian Veterinary Council Act (No.52 of 1984).

Personal Attributes

A Livestock Service Provider should have a mind for science, belongingness to the community, compassion for animals, good leadership, communication, and observation skills. S/he should be physically strong and have the manual dexterity to perform on the job.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. AGR/N4801: Controlling/restraining / examination of animals

2. AGR/N4802: Conducting vaccination and implementing regular preventive health care program

3. AGR/N4805: Veterinary First Aid

4. AGR/N4807: Assisting government agencies in animal disease control with One Health approach

5. AGR/N4808: Assisting in veterinary extension services

6. AGR/N4810: Development program implementation and marketing in the livestock sector

7. AGR/N4823: Assisting in Animal Welfare, Breed Conservation, and Disaster Management

8. AGR/N9926: Follow the relevant employability and entrepreneurial practices

Options(Not mandatory):

Option : Implementation of animal breeding services in small farm animals (if required)

This option is about assisting organization in implementing programs related to animal breeding in small farm animals.

1. AGR/N4821: Implementation of animal breeding services in small farm animals (if required)

Qualification Pack (QP) Parameters

Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/NIL
Minimum Educational Qualification & Experience	10th Class (with 1 Year of relevant experience) OR 8th Class (with 3 Years of relevant experience) OR Certificate (Pashu Sakhi/ MAITRIs/Gopal Mitra/ Local Resource Person(LRP)/ Pig Bandhu)
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	17 Years
Last Reviewed On	25/11/2021
Next Review Date	25/11/2024
Deactivation Date	25/11/2024
NSQC Approval Date	25/11/2021
Version	6.0
Reference code on NQR	2021/AGR/ASCI/04714
NQR Version	1.0

AGR/N4801: Controlling/restraining / examination of animals

Description

This OS unit is about controlling and restraining, examining animals, for delivery of veterinary care in an ideal manner based on the behavior and needs of the animals while ensuring the safety and well-being of both the animal and the handler

Scope

The scope covers the following :

- Understanding normal animal behavior, stimulus, and responses of handled species
- Prepare examination area, use of tools and equipment to restrain animals
- Apply general principles of animal handling and safety guidelines.
- Examination of animals
- Understanding of safety issues in the work environment

Elements and Performance Criteria

Understanding normal animal behavior, stimulus, and responses of handled species

To be competent, the user/individual on the job must be able to:

PC1. identify signs of fear, pain, stress, and discomfort of animal

PC2. handle animal based on the behavior to ensure cooperation

Prepare examination area, use of tools and equipment to restrain animals

To be competent, the user/individual on the job must be able to:

PC3. follow the prescribed procedures related to the preparation of examination area

PC4. clean, disinfect, store and maintain assigned tools, equipment as per SOP

Apply general principles of animal handling and safety guidelines

To be competent, the user/individual on the job must be able to:

PC5. communicate immediately with the animal owner in case of emergency

PC6. determine flight zone and point of balance of the animal, hold animal securely and safely

PC7. ensure zero accident

Examination of animals

To be competent, the user/individual on the job must be able to:

PC8. identify history, signal, breed, age, sex, color, and production class of animal

PC9. conduct topographic examination of the animal and record findings as per the SOPs prepared by the supervisor

PC10. asess stress and injury to the animal

Understanding of safety issues in the work environment

To be competent, the user/individual on the job must be able to:

PC11. protect oneself from any physical injury caused due to animal handling

PC12. use various personal protective materials/equipment

PC13. follow the bio-security guideline, recognize signs of health, assess the risk of diseases that can be transmitted through animal to human

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. the relevant organizational policy on health event

KU2. the supervisory structure

KU3. species of farm/work animals, breeds, and production stages (as necessary for recording the signals)

KU4. the basics of animal behavior, possible stimulus, and negative responses

KU5. the organ system and various body parts of relevant species (surface anatomy)

KU6. how to communicate with the owner to track the health history of the animal

KU7. basic clinical examination of animals (topographically) e.g., temperature, respiratory rate, mucous membranes, lymph node, skin appraisal, etc.)

KU8. basic bio-security and safety guidelines in animal handling

KU9. the rights of animal owners,

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief case report

GS2. fill data sheet / health monitoring proforma

GS3. read government / organizational guideline / manuals

GS4. stay updated with the latest knowledge by reading brochures, pamphlets, etc. about animal health management

GS5. discuss task lists, schedules, etc. with co-workers

GS6. explain to farmers/clients the use of tools/equipment in restraining

GS7. give clear suggestions / guidance to farmers / clients

GS8. make decisions related to the use of techniques/tools and equipment based on animal behavior

GS9. plan various procedures

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Understanding normal animal behavior, stimulus, and responses of handled species	3	10	-	2
PC1. identify signs of fear, pain, stress, and discomfort of animal	-	-	-	-
PC2. handle animal based on the behavior to ensure cooperation	-	-	-	-
Prepare examination area, use of tools and equipment to restrain animals	5	11	-	4
PC3. follow the prescribed procedures related to the preparation of examination area	-	-	-	-
PC4. clean, disinfect, store and maintain assigned tools, equipment as per SOP	-	-	-	-
Apply general principles of animal handling and safety guidelines	6	14	-	5
PC5. communicate immediately with the animal owner in case of emergency	-	-	-	-
PC6. determine flight zone and point of balance of the animal, hold animal securely and safely	-	-	-	-
PC7. ensure zero accident	-	-	-	-
Examination of animals	14	10	-	6
PC8. identify history, signal, breed, age, sex, color, and production class of animal	-	-	-	-
PC9. conduct topographic examination of the animal and record findings as per the SOPs prepared by the supervisor	-	-	-	-
PC10. asess stress and injury to the animal	-	-	-	-
Understanding of safety issues in the work environment	5	3	-	2
PC11. protect oneself from any physical injury caused due to animal handling	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. use various personal protective materials/equipment	-	-	-	-
PC13. follow the bio-security guideline, recognize signs of health, assess the risk of diseases that can be transmitted through animal to human	-	-	-	-
NOS Total	**33**	**48**	**-**	**19**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4801
NOS Name	Controlling/restraining / examination of animals
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4802: Conducting vaccination and implementing regular preventive health care program

Description

This OS unit is about providing preventive animal health care.

Scope

The scope covers the following :

- Animal identification and data recording
- Risk assessment and identification of preventable endemic disease(s)
- Review of standing technical guidance on control of scheduled/notified disease(s)
- Communicating business/health risk and bio-security related information to the client
- Schedule vaccination program
- Pre and post-vaccination care

Elements and Performance Criteria

Animal identification and data recording

To be competent, the user/individual on the job must be able to:

PC1.   carry out tagging of animals as per standard protocol

PC2.   use field data collection tools (including electronic/mobile-based data collection) as per given specifications

PC3.   identify and record the data such as species, geographical location, specific area of the animal as per SOP

PC4.   record and submit the data related to health, production, and breeding of the animals attended to the appropriate authority on time as per format

Risk assessment and identification of preventable endemic disease(s)

To be competent, the user/individual on the job must be able to:

PC5.   undertake appropriate action which is just for a farmer/client as far as preventing the occurrence of known preventable disease(s)

Review of standing technical guideline on control of scheduled/notified disease(s)

To be competent, the user/individual on the job must be able to:

PC6.   perform such actions/use product / follow the procedure prescribed in the guideline for the scheduled diseases

Communication of business/health risk and bio-security related information to the client.

To be competent, the user/individual on the job must be able to:

PC7.   create future demand for preventive services by appropriately communicating the risk

PC8.   ensure a high rate of voluntary compliance with bio-security norms

Scheduling of vaccination program

To be competent, the user/individual on the job must be able to:

PC9. schedule vaccination program appropriately, ensuring technical requirements related to the environment and convenience of farmer/client

Pre and post-vaccination care

To be competent, the user/individual on the job must be able to:

PC10. identify sick animals or animals not fit for vaccination

PC11. face any emergency situation following after vaccination

PC12. analyze and report side-effect (if any)

Handling and administration of vaccines

To be competent, the user/individual on the job must be able to:

PC13. perform self-evaluation of procedure related to procurement/infrastructure for storage etc. and use of vaccines from appropriate sources

PC14. ensure cold chain and compliance with other guidelines during transportation to farmer's/clients' place and point of usage

PC15. categorize vaccine stock in hand so that the oldest vaccines are being used first, ensuring that no vaccine is used after the expiration date

PC16. follow all scientific guidelines related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines, etc.

Preventive de-worming.

To be competent, the user/individual on the job must be able to:

PC17. follow local area guidelines regarding species, age, and season of de-worming

PC18. use only permissible products, follow appropriate dose and procedure of administration (as per the directive of supervising veterinarian)

Spraying of animals/birds or use of other methods for control of ectoparasites / vectors

To be competent, the user/individual on the job must be able to:

PC19. use only permissible products, ensuring appropriate dose and procedure of application

PC20. ensure scale of operation by involving a maximum number of farmers in a given area

PC21. take precaution for minimum effect on animal/immediate environment

Record keeping of preventive interventions, monitoring, and follow up

To be competent, the user/individual on the job must be able to:

PC22. ensure the record of a given vaccine and administration-related information (individual/herd level) along with batch numbers etc., as per given format

PC23. timely report vaccine failure to appropriate authority as per format

PC24. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program

PC25. ensure herd coverage and continuity of vaccination program

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. the relevant government / organizational guidelines pertaining to preventive care procedure, use of products and reporting structure, etc.

KU2. the impact/importance of preventive care program vis a vis organizational mandate

KU3. the importance of data recording/monitoring vis a vis evaluation of preventive care program

KU4. the importance of data and use of data collection tool(including electronic)

KU5. the prevalent farming system, social, geographical/environmental condition of the service area

KU6. the examination routine of the healthy animals

KU7. the prevalent diseases vis a vis affected species within the service area which can be prevented

KU8. the symptoms, the period of prevalence, pre-disposing factors of the prevalent diseases

KU9. the impact of prevalent disease(s) and its geographical spread

KU10. pre- and post-vaccination care, including handling of possible emergencies

KU11. the type of vaccine and ways, the importance of maintaining cold chain

KU12. availability of vaccines within a given geographical area, storage, and use (e.g., reconstitution, etc.)

KU13. the scientific procedure of vaccine administration

KU14. the veterinary products used in preventive care and their appropriate use

KU15. environmental effect of chemicals used for control of ectoparasite / vector control

KU16. basic concept of herd immunity and measurement of same

KU17. basic concepts of disease prevention in wild free-range animals

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report/write email at least in local language

GS2. fill datasheet

GS3. read government/organizational guidelines

GS4. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets

GS5. discuss task lists, schedules, etc. with co-workers

GS6. ask question and listen to farmers/clients to collect required data

GS7. give clear suggestions/guidance to farmers/clients

GS8. make decisions pertaining to the concerned area of work (in organizing and coordinating work activities)

GS9. solve problem arising out of implementation/scheduling of activities

GS10. solve minor problems related to supplies, cold chain, consumables, financial and other resources to ensure an efficient workflow for work assigned

GS11. plan activities and carry them through effectively involving farmers/clients

GS12. follow given procedures

GS13. use communication tools

GS14. gather information systematically to establish a fact

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Animal identification and data recording	**5**	**12**	**-**	**3**
PC1. carry out tagging of animals as per standard protocol	-	-	-	-
PC2. use field data collection tools (including electronic/mobile-based data collection) as per given specifications	-	-	-	-
PC3. identify and record the data such as species, geographical location, specific area of the animal as per SOP	-	-	-	-
PC4. record and submit the data related to health, production, and breeding of the animals attended to the appropriate authority on time as per format	-	-	-	-
Risk assessment and identification of preventable endemic disease(s)	**3**	**-**	**-**	**2**
PC5. undertake appropriate action which is just for a farmer/client as far as preventing the occurrence of known preventable disease(s)	-	-	-	-
Review of standing technical guideline on control of scheduled/notified disease(s)	**3**	**-**	**-**	**2**
PC6. perform such actions/use product / follow the procedure prescribed in the guideline for the scheduled diseases	-	-	-	-
Communication of business/health risk and bio-security related information to the client.	**3**	**-**	**-**	**2**
PC7. create future demand for preventive services by appropriately communicating the risk	-	-	-	-
PC8. ensure a high rate of voluntary compliance with bio-security norms	-	-	-	-
Scheduling of vaccination program	**1**	**2**	**-**	**2**
PC9. schedule vaccination program appropriately, ensuring technical requirements related to the environment and convenience of farmer/client	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Pre and post-vaccination care	**3**	**-**	**-**	**2**
PC10. identify sick animals or animals not fit for vaccination	-	-	-	-
PC11. face any emergency situation following after vaccination	-	-	-	-
PC12. analyze and report side-effect (if any)	-	-	-	-
Handling and administration of vaccines	**8**	**15**	**-**	**2**
PC13. perform self-evaluation of procedure related to procurement/infrastructure for storage etc. and use of vaccines from appropriate sources	-	-	-	-
PC14. ensure cold chain and compliance with other guidelines during transportation to farmer's/clients' place and point of usage	-	-	-	-
PC15. categorize vaccine stock in hand so that the oldest vaccines are being used first, ensuring that no vaccine is used after the expiration date	-	-	-	-
PC16. follow all scientific guidelines related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines, etc.	-	-	-	-
Preventive de-worming.	**4**	**5**	**-**	**1**
PC17. follow local area guidelines regarding species, age, and season of de-worming	-	-	-	-
PC18. use only permissible products, follow appropriate dose and procedure of administration (as per the directive of supervising veterinarian)	-	-	-	-
Spraying of animals/birds or use of other methods for control of ectoparasites / vectors	**1**	**2**	**-**	**2**
PC19. use only permissible products, ensuring appropriate dose and procedure of application	-	-	-	-
PC20. ensure scale of operation by involving a maximum number of farmers in a given area	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC21. take precaution for minimum effect on animal/immediate environment	-	-	-	-
Record keeping of preventive interventions, monitoring, and follow up	**4**	**7**	-	**4**
PC22. ensure the record of a given vaccine and administration-related information (individual/herd level) along with batch numbers etc., as per given format	-	-	-	-
PC23. timely report vaccine failure to appropriate authority as per format	-	-	-	-
PC24. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program	-	-	-	-
PC25. ensure herd coverage and continuity of vaccination program	-	-	-	-
NOS Total	**35**	**43**	**-**	**22**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4802
NOS Name	Conducting vaccination and implementing regular preventive health care program
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4805: Veterinary First Aid

Description

This OS unit is about veterinary first-aid.

Scope

The scope covers the following :

- Cleaning and washing of muzzle, mouth, hooves, feet, etc. with antiseptic solutions
- Treatment of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc.
- Provide immediate support to accidental situations like poisoning, sun-stroke, electrocution, burn injuries, etc.
- Handling of superficial wound and trauma
- Initial support in cases like prolapse of uterus.

Elements and Performance Criteria

Cleaning and washing of muzzle, mouth, hooves, feet, etc. with antiseptic solutions

To be competent, the user/individual on the job must be able to:

PC1. prepare an aseptic solution

PC2. clean hooves, feet and other areas with antiseptic solutions

Treatment of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc.

To be competent, the user/individual on the job must be able to:

PC3. analyze the emergency situation and use commonly suggested medications / follow precautions as per manual prepared by supervisor

PC4. identify common symptoms of diseases in animals and report accordingly

PC5. identify common infection/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 user/individual on the job must be able to:

PC6. identify the cause of accident from symptoms

PC7. assess the severity of the accident and suggest for consultation with a veterinarian

PC8. provide basic/immediate care as specified for each type of accidents

Handling of superficial wound and trauma

To be competent, the user/individual on the job must be able to:

PC9. clean and protect the wound and stop bleeding

Initial support in cases like prolapse of uterus.

To be competent, the user/individual on the job must be able to:

PC10. carry out aseptic handling and protection of the prolapsed organ(s) before the arrival of a veterinarian

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational policy on health event reporting/record keeping

KU2. relevant supervisory structure

KU3. basics of emergency conditions in animals along with pre-disposing factors

KU4. the usage of first aid kit

KU5. nature of wounds vis-a-vis procedure of cleaning and protection

KU6. uses and doses and safety precautions of common medications in emergency situations and to handle basic ailments (as per manual prepared by supervisor)

KU7. basics of storage, handling, administration, disposal of approved/permitted medicines

KU8. common approaches in handling poisoning and natural calamities

KU9. ways to differentiate a diseased animal from a healthy animal

KU10. major symptoms of common scheduled diseases

KU11. use of approved ethno-veterinary practices

KU12. preogatives and obligations with respection treatment and use of drugs in animals

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. fill data sheet/health monitoring proforma

GS2. read government/organizational guideline/manuals

GS3. read directives from government/organization/ supervising veterinarians

GS4. discuss task lists, schedules, etc. with co-workers

GS5. explain farmers / clients on presented symptoms / emergency conditions

GS6. give clear suggestions/guidance to farmers/clients

GS7. make decisions related to the use of medication out of permitted assortments

GS8. decide appropriate approach and best way to handle an injured animal

GS9. relate the emergency to immediate evets on the surrounding environment

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Cleaning and washing of muzzle, mouth, hooves, feet, etc. with antiseptic solutions	**2**	**7**	**-**	**1**
PC1. prepare an aseptic solution	-	-	-	-
PC2. clean hooves, feet and other areas with antiseptic solutions	-	-	-	-
Treatment of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc.	**15**	**10**	**-**	**5**
PC3. analyze the emergency situation and use commonly suggested medications / follow precautions as per manual prepared by supervisor	-	-	-	-
PC4. identify common symptoms of diseases in animals and report accordingly	-	-	-	-
PC5. identify common infection/scheduled animal diseases and ensure timely reporting of the same	-	-	-	-
Provide immediate support to accidental situations like poisoning, sun-stroke, electrocution, burn injuries, etc.	**7**	**8**	**-**	**3**
PC6. identify the cause of accident from symptoms	-	-	-	-
PC7. assess the severity of the accident and suggest for consultation with a veterinarian	-	-	-	-
PC8. provide basic/immediate care as specified for each type of accidents	-	-	-	-
Handling of superficial wound and trauma	**5**	**12**	**-**	**3**
PC9. clean and protect the wound and stop bleeding	-	-	-	-
Initial support in cases like prolapse of uterus.	**5**	**12**	**-**	**3**
PC10. carry out aseptic handling and protection of the prolapsed organ(s) before the arrival of a veterinarian	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	**34**	**49**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4805
NOS Name	Veterinary First Aid
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4807: Assisting government agencies in animal disease control with One Health approach

Description

This OS unit is about assisting government authorities in animal disease control

Scope

The scope covers the following :

- Assist the implementation of collaborative activities data gathering including that under one health-related program
- Provide leadership for local resource mobilization and partnership
- Implement biosecurity norms within identified area/livestock market/farms as per guideline
- Record and reporting of the animal movement route (including cross border movement)
- Create awareness on livestock value chain/transport-related risky practices
- Administration of preventive herd level medication (where suggested)
- Reporting of disease incidence /outbreak.
- Sample collection
- Supervise culling and disposal of animals /bird
- Supervise disinfection of farm premise / local area

Elements and Performance Criteria

Assist the implementation of collaborative activities data gathering including that under one health-related program

To be competent, the user/individual on the job must be able to:

PC1.   relate to multiple factors that can predispose or cause the spread of diseases

PC2.   defend the ''one health approach'' approach in controlling diseases and cooperate with partnering agencies/ integrated team

Provide leadership for local resource mobilization and partnership

To be competent, the user/individual on the job must be able to:

PC3.   support 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.

Implement biosecurity norms within identified area/livestock market/farms as per guideline

To be competent, the user/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 guidelines related to the market operation, cleaning, etc.

Record and reporting of the animal movement route (including cross border movement)

To be competent, the user/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

Create awareness on livestock value chain/transport-related risky practices

To be competent, the user/individual on the job must be able to:

PC10. explain common activities from farm to fork, relationships between people and 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 user/individual on the job must be able to:

PC12. comply directives and guidelines

Reporting of disease incidence /outbreak

To be competent, the user/individual on the job must be able to:

PC13. use a standard format for reporting

Sample collection

To be competent, the user/individual on the job must be able to:

PC14. collect necessary samples for diagnosis of disease as directed by supervising veterinarian

PC15. practice necessary record keeping associated with sample identification

PC16. follow proper packaging procedure as per the guidance of supervisor

Supervise culling and disposal of animals /bird.

To be competent, the user/individual on the job must be able to:

PC17. practice humane culling methods

PC18. ensure scientific disposal of culled carcasses as per guidelines

Supervise disinfection of farm premise / local area

To be competent, the user/individual on the job must be able to:

PC19. ensure the use of appropriate disinfectant and adoption of to the prescribed procedure of application

PC20. ensure coverage of areas/ farms as per the suggestion of government authority

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational policy on health event reporting/record keeping

KU2. importance and procedure of disease reporting

KU3. basic aspects of disease surveillance, monitoring and epidemiological field data collection

KU4. the basic concept of one health and its importance

KU5. ways of disease transmission, the concept of bio-security control in livestock markets/farms

KU6. various activities, the relationship of people of livestock poultry business from farm to fork along with risky common practices

KU7. the linkage between risky practices, animal movement and disease transmission

KU8. the basic guideline of sample collection, identification, packaging, and shipping methods

KU9. basic principles of biosafety and importance of biological threat

KU10. culling, disposal and disinfection methods

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report

GS2. fill data sheet

GS3. keep abreast with the latest knowledge of disease outbreaks etc. by reading brochures, pamphlets, websites, etc.

GS4. read directives from government /organization / supervising veterinarians

GS5. discuss task lists, schedules, etc. with co-workers

GS6. explain to farmers and other stakeholders on the importance of addressing risky practices for disease control

GS7. give clear suggestions/guidance to farmers/clients

GS8. make early decisions related to reporting of disease outbreaks

GS9. plan various activities

GS10. send an email and enter data to a database as per the given format

GS11. investigate and analyze livestock value chain activities

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Assist the implementation of collaborative activities data gathering including that under one health-related program	**4**	**3**	**-**	**3**
PC1. relate to multiple factors that can predispose or cause the spread of diseases	-	-	-	-
PC2. defend the ''one health approach'' approach in controlling diseases and cooperate with partnering agencies/ integrated team	-	-	-	-
Provide leadership for local resource mobilization and partnership	**-**	**4**	**-**	**1**
PC3. support 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.	-	-	-	-
Implement biosecurity norms within identified area/livestock market/farms as per guideline	**3**	**3**	**-**	**4**
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 guidelines related to the market operation, cleaning, etc.	-	-	-	-
Record and reporting of the animal movement route (including cross border movement)	**3**	**-**	**-**	**2**
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	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Create awareness on livestock value chain/transport-related risky practices	**5**	**4**	**-**	**1**
PC10. explain common activities from farm to fork, relationships between people and 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)	**3**	**-**	**-**	**2**
PC12. comply directives and guidelines	-	-	-	-
Reporting of disease incidence /outbreak	**5**	**5**	**-**	**5**
PC13. use a standard format for reporting	-	-	-	-
Sample collection	**8**	**10**	**-**	**2**
PC14. collect necessary samples for diagnosis of disease as directed by supervising veterinarian	-	-	-	-
PC15. practice necessary record keeping associated with sample identification	-	-	-	-
PC16. follow proper packaging procedure as per the guidance of supervisor	-	-	-	-
Supervise culling and disposal of animals /bird.	**6**	**3**	**-**	**1**
PC17. practice humane culling methods	-	-	-	-
PC18. ensure scientific disposal of culled carcasses as per guidelines	-	-	-	-
Supervise disinfection of farm premise / local area	**3**	**5**	**-**	**2**
PC19. ensure the use of appropriate disinfectant and adoption of to the prescribed procedure of application	-	-	-	-
PC20. ensure coverage of areas/ farms as per the suggestion of government authority	-	-	-	-
NOS Total	**40**	**37**	**-**	**23**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4807
NOS Name	Assisting government agencies in animal disease control with One Health approach
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4808: Assisting in veterinary extension services

Description

This OS unit is about assisting organizations in conducting veterinary extension-related activities.

Scope

The scope covers the following :

- promoting approved technology and best practices (viz housing, feeding, breeding including organic practices) in livestock farming, handling animal products
- assist farmers on quality farm input selection and procurement
- assist in maintaining the record of farmer meeting/farm school activities
- use of mobile and other technology for extension/client education

Elements and Performance Criteria

promoting approved technology and best practices (viz housing, feeding, breeding including organic practices) in livestock farming, handling animal products

To be competent, the user/individual on the job must be able to:

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 the field and need for improvement

PC3. organize extension events based on farmer convenience and seasonal suitability

Assist farmers on quality farm input selection and procurement

To be competent, the user/individual on the job must be able to:

PC4. understand and explain quality parameters regarding various farm inputs

PC5. identify sources, plan and organize farmers for intelligent (timely, quality, and appropriate cost- based) procurement of inputs

Assist in maintaining the record of farmer meeting/farm school activities

To be competent, the user/individual on the job must be able to:

PC6. keep the 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 user/individual on the job must be able to:

PC7. use modern communication devices, audio-visual aids to explain farmers/clients

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational policy, products, and services

KU2. the supervisory structure

KU3. importance of data recording/monitoring vis a vis evaluation of preventive care program

KU4. importance of data and use of data collection tool (including electronic)

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief field program report

GS2. fill datasheet and survey form

GS3. read government/organizational guideline/manuals

GS4. keep abreast with the latest knowledge/technologies by reading brochures, pamphlets, and other related information sheet

GS5. discuss task lists, schedules, etc. with co-workers

GS6. explain farmers/clients on the use of various technologies

GS7. give clear suggestions/guidance to farmers/clients

GS8. make decisions related to the suitability of any technology based on local situations

GS9. plan for various extension events

GS10. use electronic communication/presentation tools

GS11. investigate and analyze adopted technologies and provide feedback to supervising veterinarian/scientist

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
promoting approved technology and best practices (viz housing, feeding, breeding including organic practices) in livestock farming, handling animal products	**30**	**20**	-	**2**
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 the field and need for improvement	-	-	-	-
PC3. organize extension events based on farmer convenience and seasonal suitability	-	-	-	-
Assist farmers on quality farm input selection and procurement	**20**	**10**	-	-
PC4. understand and explain quality parameters regarding various farm inputs	-	-	-	-
PC5. identify sources, plan and organize farmers for intelligent (timely, quality, and appropriate cost- based) procurement of inputs	-	-	-	-
Assist in maintaining the record of farmer meeting/farm school activities	**5**	-	-	**5**
PC6. keep the 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	**5**	-	-	**3**
PC7. use modern communication devices, audio-visual aids to explain farmers/clients	-	-	-	-
NOS Total	**60**	**30**	-	**10**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4808
NOS Name	Assisting in veterinary extension services
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4810: Development program implementation and marketing in the livestock sector

Description

This OS unit is about assisting organizations in implementing programs and projects in the livestock sector (including one related to the marketing of livestock products).

Scope

The scope covers the following :

- Facilitate implementation of government / private development programs including livestock insurance
- Engagement with 'farmers' institutions and local self-government (Panchayat)
- Facilitate agri-livestock related economic activity of self-help groups
- Facilitate marketing of livestock farm inputs / products

Elements and Performance Criteria

Facilitate implementation of government / private development programs including livestock insurance

To be competent, the user/individual on the job must be able to:

PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the project/program

PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs

PC3. practice ear tagging in livestock and register animal for insurance

Engagement with 'farmers' institutions and local self-government (Panchayat)

To be competent, the user/individual on the job must be able to:

PC4. attend and support during meeting /programs of farmer's institutions/panchayats

PC5. inform/involve farmer leaders/panchayat functionaries in the selection of program beneficiaries

PC6. facilitate organization's panchayat endeavor to ensure convergence of development projects for synergy

Facilitate agri-livestock related economic activity of self-help groups

To be competent, the user/individual on the job must be able to:

PC7. support and handhold formation of self-help groups

PC8. guide farmers on business options and basic economics of various livestock-linked activities

PC9. maintain a conducive environment for all the genders and Persons with Disabilities (PwD)

Facilitate marketing of livestock farm inputs / products

To be competent, the user/individual on the job must be able to:

PC10. support farmers to produce for market and ensure aggregation, collective marketing of livestock products

PC11. deliver market-related e.g. prices, etc. information to farmers

PC12. generate information on livestock farm inputs e.g. feed, fodder, supplements, etc.

PC13. ensure equal participation of people across the genders and PwD in farmer's groups

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational policy and programs

KU2. sustainable development and goal for same

KU3. basics of project development and management

KU4. guideline on self-help group/producer company formation and functioning

KU5. common livestock based business activities and economics thereof

KU6. basic of common rural development programs of the government

KU7. basics of marketing and markets in the context of livestock products

KU8. challenges faced by PwD and the ways to help them overcome the same

KU9. gender concepts, issues and legislation

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report

GS2. read government/organizational guideline/manuals

GS3. keep abreast with the latest information/knowledge on the rural development livestock market by reading newspapers, magazines, etc.

GS4. discuss and explain benefit/outcome development programs

GS5. listen and comprehend 'farmer's problems and suggestions

GS6. plan activities

GS7. use electronic gadgets to promote programs/projects and engage with farmers/clients

GS8. investigate and analyze opportunities and difficulties in program implementation

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Facilitate implementation of government / private development programs including livestock insurance	**10**	**13**	**-**	**7**
PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the project/program	-	-	-	-
PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs	-	-	-	-
PC3. practice ear tagging in livestock and register animal for insurance	-	-	-	-
Engagement with 'farmers' institutions and local self-government (Panchayat)	**5**	**10**	**-**	**5**
PC4. attend and support during meeting /programs of farmer's institutions/panchayats	-	-	-	-
PC5. inform/involve farmer leaders/panchayat functionaries in the selection of program beneficiaries	-	-	-	-
PC6. facilitate organization's panchayat endeavor to ensure convergence of development projects for synergy	-	-	-	-
Facilitate agri-livestock related economic activity of self-help groups	**10**	**5**	**-**	**10**
PC7. support and handhold formation of self-help groups	-	-	-	-
PC8. guide farmers on business options and basic economics of various livestock-linked activities	-	-	-	-
PC9. maintain a conducive environment for all the genders and Persons with Disabilities (PwD)	-	-	-	-
Facilitate marketing of livestock farm inputs / products	**6**	**12**	**-**	**7**
PC10. support farmers to produce for market and ensure aggregation, collective marketing of livestock products	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. deliver market-related e.g. prices, etc. information to farmers	-	-	-	-
PC12. generate information on livestock farm inputs e.g. feed, fodder, supplements, etc.	-	-	-	-
PC13. ensure equal participation of people across the genders and PwD in farmer's groups	-	-	-	-
NOS Total	**31**	**40**	**-**	**29**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4810
NOS Name	Development program implementation and marketing in the livestock sector
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N4823: Assisting in Animal Welfare, Breed Conservation, and Disaster Management

Description

This OS unit is about assisting an organization in implementing programs related to animal welfare and conservation.

Scope

The scope covers the following :

- Identifying and reporting cruelty to animals/birds
- Supporting the management of human-animal conflict
- Promotion of rearing of purebred indigenous animals
- Addressing the needs of disabled, infirm animals (in Gaushala's the protective shelters for cows in India)

Elements and Performance Criteria

Identifying and reporting cruelty to animals/birds

To be competent, the user/individual on the job must be able to:

PC1. identify and explain the cruelty for effective reporting

Supporting the management of human-animal conflict

To be competent, the user/individual on the job must be able to:

PC2. explain the stakeholders on common prevention and protection strategies related to the common conflict situation

Promotion of rearing of purebred indigenous animals

To be competent, the user/individual on the job must be able to:

PC3. identify and promote the economic use of indigenous farm animals

Addressing the needs of disabled, infirm animals (in Gaushala's the protective shelters for cows in India)

To be competent, the user/individual on the job must be able to:

PC4. ensure specific housing requirements of disabled, infirm animals

PC5. provide required care to recumbent animals

Supporting disaster preparedness and handling

To be competent, the user/individual on the job must be able to:

PC6. assist in stocking (as a preparedness) and mobilization of feed/fodder at the time of disasters

PC7. work with community and disaster management authorities to provide safe passage to animals/livestock

PC8. provide care/shelter to animals in distress

PC9. carry out disposal of the carcass as per the guidelines

PC10. carry out culling and other measures suggested in case of disease-related emergencies

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational guidelines on reporting and partnerships

KU2. importance of conservation and the essential role of wildlife in ecosystem functioning

KU3. common prevention and protection strategies in human-animal conflict situations

KU4. basic aspects of disaster management

KU5. rules and regulations related to animal welfare and wildlife conservation

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief report

GS2. read government / organizational guidelines

GS3. read directives from government/organization / supervising veterinarians

GS4. discuss task lists, schedules, etc. with co-workers

GS5. explain farmers/animal owners on disaster management issues

GS6. make decisions related to steps needed to protect the interest of livestock/animals in the event of a disaster

GS7. plan various activities

GS8. use mobile/electronic gadgets helpful during disasters

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Identifying and reporting cruelty to animals/birds	**5**	**3**	**-**	**2**
PC1. identify and explain the cruelty for effective reporting	-	-	-	-
Supporting the management of human-animal conflict	**3**	**5**	**-**	**2**
PC2. explain the stakeholders on common prevention and protection strategies related to the common conflict situation	-	-	-	-
Promotion of rearing of purebred indigenous animals	**5**	**3**	**-**	**2**
PC3. identify and promote the economic use of indigenous farm animals	-	-	-	-
Addressing the needs of disabled, infirm animals (in Gaushala's the protective shelters for cows in India)	**10**	**16**	**-**	**4**
PC4. ensure specific housing requirements of disabled, infirm animals	-	-	-	-
PC5. provide required care to recumbent animals	-	-	-	-
Supporting disaster preparedness and handling	**22**	**13**	**-**	**5**
PC6. assist in stocking (as a preparedness) and mobilization of feed/fodder at the time of disasters	-	-	-	-
PC7. work with community and disaster management authorities to provide safe passage to animals/livestock	-	-	-	-
PC8. provide care/shelter to animals in distress	-	-	-	-
PC9. carry out disposal of the carcass as per the guidelines	-	-	-	-
PC10. carry out culling and other measures suggested in case of disease-related emergencies	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	**45**	**40**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4823
NOS Name	Assisting in Animal Welfare, Breed Conservation, and Disaster Management
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

AGR/N9926: Follow the relevant employability and entrepreneurial practices

Description

This OS unit is about following the relevant employability and entrepreneurial practices. It also covers the use of the computer, banking, insurance and various electronic services.

Scope

The scope covers the following :

- Follow the employability practices
- Use computer and relevant electronic services
- Follow the entrepreneurial practices

Elements and Performance Criteria

Follow the employability practices

To be competent, the user/individual on the job must be able to:

PC1. prepare a resume including all the relevant information

PC2. prepare answers to frequently asked interview questions

PC3. follow the recommended practices to prevent and deal with common health and safety issues

PC4. maintain a positive attitude towards work and co-workers

PC5. carry out workplace duties as per the applicable quality standards, ensuring honesty in all the activities

PC6. apply the appropriate techniques for effective listening and speaking

PC7. follow the applicable time schedules and time management practices for effective utilisation of time

PC8. assist in identifying and implementing relevant creative solutions to resolve work-related issues

PC9. set up a bank account and personal insurance policy

PC10. implement the recommended anger and stress management practices to ensure a collaborative and stress-free environment at work

Use computer and relevant electronic services

To be competent, the user/individual on the job must be able to:

PC11. set up a computer and relevant accessories/ peripherals for use according to the manufacturer's instructions

PC12. use the computer with the relevant software or applications to achieve work efficiency

PC13. maintain various work-related records electronically using the computer

PC14. maintain separate records of fixed and variable business costs

PC15. undertake business communications using email service

![ASCI - Agriculture Skill Council of India]

सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP
Qualification Pack

NSDC
National
Skill Development
Corporation
Transforming the skill landscape

PC16. carry out commercial activities such as buying and selling of commodities using the appropriate e-commerce platforms

PC17. process payments using the relevant e-payment method

Follow the entrepreneurial practices

To be competent, the user/individual on the job must be able to:

PC18. set up a bank account with the required facilities to conduct business transactions

PC19. follow the recommended practices to utilise business funds effectively

PC20. invest in appropriate funds

PC21. use the relevant personal and business insurance services

PC22. follow the relevant tax laws to ensure timely payment of relevant taxes and filing of Income Tax Return (ITR)

PC23. follow the recommended practices to ensure effective team building at work

PC24. identify and implement appropriate and cost-effective solutions to work-related problems

PC25. carry out outreach programs to expand business

PC26. follow the Make in India campaign to use, manufacturer and promote products made in the country

PC27. utilise the relevant government programs and schemes for entrepreneurs

PC28. follow the recommended practices for a stable enterprise, managing the relevant risks

PC29. review the business account regularly to ensure the profitability of the business

PC30. follow with Maslow's Hierarchy of Needs theory to create motivation at work

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. the recommended practices to be followed to prevent and deal with common health and safety issues at work

KU2. the Maslow's Hierarchy of Needs theory and its application at work

KU3. various characteristics of entrepreneurs with the motivation for achievement

KU4. the appropriate practices to be followed to maintain a positive attitude at work

KU5. the role of attitude in self-analysis

KU6. how to utilise personal strengths at work and overcome weaknesses

KU7. the importance of conducting work/business with honesty

KU8. the importance of maintaining the required quality standards in work

KU9. the characteristics of highly creative and innovative people

KU10. how to find creative solutions to work-related problems

KU11. the benefits of time management and the relevant practices to be followed for effective utilisation of time

KU12. the relevant practices to be followed for anger and stress management at work

KU13. how to set up a computer and relevant accessories/ peripherals for use

KU14. use of relevant computer software/ applications for various purposes

KU15. the benefits of maintaining electronic records using a computer

सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

Qualification Pack

NSDC
National Skill Development Corporation
Transforming the skill landscape

KU16. Digital India campaign, and the modes and benefits of carrying out business transactions digitally

KU17. the benefits and use of email communication services

KU18. use of various e-commerce platforms and e-payment methods

KU19. different types of bank accounts and their benefits

KU20. the process of registering for a bank account for personal or business use

KU21. the importance and methods of saving money

KU22. difference between fixed and variable business costs

KU23. the importance of making investments and different types of investment options available

KU24. different types of insurance products and the importance of availing personal and business insurance

KU25. use and benefits of online banking

KU26. how to prepare a resume and the relevant information to be included in it

KU27. frequently asked interview questions and how to answer them appropriately

KU28. basic workplace terminology

KU29. the recommended practices to be followed to ensure effective team building at work

KU30. the appropriate techniques for effective listening and speaking

KU31. the process of identifying and implementing appropriate and cost-effective solutions to work-related problems

KU32. the process of carrying out outreach programs to expand business

KU33. Make in India campaign to promote products made in the country

KU34. relevant government programs and schemes for entrepreneurs

KU35. the recommended practices to be followed for a stable enterprise

KU36. the importance and process of reviewing the business account regularly to ensure the profitability of the business

KU37. the concept and significance of entrepreneurship

KU38. the entrepreneurship ecosystem

KU39. different types of entrepreneurs and their characteristics

KU40. the qualities of an effective leader and the benefits of effective leadership

KU41. appropriate practices to be followed to build a strong team of professionals working towards a common goal

KU42. how to identify new business opportunities within a business

KU43. the relationship between entrepreneurship, risk appetite, and resilience

KU44. different techniques of deal with failure effectively

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. maintain work-related notes and records

GS2. communicate politely and professionally

GS3. listen attentively to understand the information being shared

GS4. read the relevant literature to earn about the latest developments in the field of work

GS5. co-ordinate with the co-workers and stakeholders to achieve the work objectives

GS6. plan and prioritise tasks to ensure timely completion

GS7. take quick decisions to deal with workplace emergencies

GS8. evaluate all possible solutions to a problem to select the best one

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Follow the employability practices	**10**	**20**	**-**	**10**
PC1. prepare a resume including all the relevant information	-	-	-	-
PC2. prepare answers to frequently asked interview questions	-	-	-	-
PC3. follow the recommended practices to prevent and deal with common health and safety issues	-	-	-	-
PC4. maintain a positive attitude towards work and co-workers	-	-	-	-
PC5. carry out workplace duties as per the applicable quality standards, ensuring honesty in all the activities	-	-	-	-
PC6. apply the appropriate techniques for effective listening and speaking	-	-	-	-
PC7. follow the applicable time schedules and time management practices for effective utilisation of time	-	-	-	-
PC8. assist in identifying and implementing relevant creative solutions to resolve work-related issues	-	-	-	-
PC9. set up a bank account and personal insurance policy	-	-	-	-
PC10. implement the recommended anger and stress management practices to ensure a collaborative and stress-free environment at work	-	-	-	-
Use computer and relevant electronic services	**8**	**10**	**-**	**8**
PC11. set up a computer and relevant accessories/ peripherals for use according to the manufacturer's instructions	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. use the computer with the relevant software or applications to achieve work efficiency	-	-	-	-
PC13. maintain various work-related records electronically using the computer	-	-	-	-
PC14. maintain separate records of fixed and variable business costs	-	-	-	-
PC15. undertake business communications using email service	-	-	-	-
PC16. carry out commercial activities such as buying and selling of commodities using the appropriate e-commerce platforms	-	-	-	-
PC17. process payments using the relevant e-payment method	-	-	-	-
Follow the entrepreneurial practices	**12**	**10**	**-**	**12**
PC18. set up a bank account with the required facilities to conduct business transactions	-	-	-	-
PC19. follow the recommended practices to utilise business funds effectively	-	-	-	-
PC20. invest in appropriate funds	-	-	-	-
PC21. use the relevant personal and business insurance services	-	-	-	-
PC22. follow the relevant tax laws to ensure timely payment of relevant taxes and filing of Income Tax Return (ITR)	-	-	-	-
PC23. follow the recommended practices to ensure effective team building at work	-	-	-	-
PC24. identify and implement appropriate and cost-effective solutions to work-related problems	-	-	-	-
PC25. carry out outreach programs to expand business	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC26. follow the Make in India campaign to use, manufacturer and promote products made in the country	-	-	-	-
PC27. utilise the relevant government programs and schemes for entrepreneurs	-	-	-	-
PC28. follow the recommended practices for a stable enterprise, managing the relevant risks	-	-	-	-
PC29. review the business account regularly to ensure the profitability of the business	-	-	-	-
PC30. follow with Maslow's Hierarchy of Needs theory to create motivation at work	-	-	-	-
NOS Total	**30**	**40**	**-**	**30**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N9926
NOS Name	Follow the relevant employability and entrepreneurial practices
Sector	Agriculture
Sub-Sector	Generic
Occupation	Generic
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	24/02/2022
Next Review Date	24/02/2025
NSQC Clearance Date	24/02/2022

AGR/N4821: 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

The scope covers the following :

- Maintaining database of good animal breeders
- Assist farmers in quality animal selection / purchase
- Conduct artificial insemination
- Assist farmers on management of unproductive animals
- Post insemination support, data recording, and Performance monitoring of breeding services

Elements and Performance Criteria

Maintaining database of good animal breeders

To be competent, the user/individual on the job must be able to:

PC1. support farmers/clients with information on sourcing of good breeding animals

Assist farmers in quality animal selection / purchase

To be competent, the user/individual on the job must be able to:

PC2. assist farmers/clients in selecting animals with the proper breed and other characteristics for breeding purposes

Conduct artificial insemination

To be competent, the user/individual on the job must be able to:

PC3. recognize heat in livestock

PC4. use semen of appropriate quality and blood level

PC5. comply with the prescribed procedures in handling semen straw and in conducting insemination

PC6. practice artificial insemination in time

Assist farmers on management of unproductive animals

To be competent, the user/individual on the job must be able to:

PC7. illustrate farmers/clients common infertility issues and their handling

PC8. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation, etc.

PC9. guide farmers on maintaining an optimum number of animals based on breeding plan and suggest techniques to improve performance

Post insemination support, data recording, and Performance monitoring of breeding services

To be competent, the user/individual on the job must be able to:

PC10. support/assist farmer in handling common difficulties related to animal birth

PC11. use field data collection tools (including electronic reader / mobile-based data collection) as per given specifications

PC12. provide the organization with standard required information such as semen used, time of heat, time of insemination, kid/piglet born, etc., needed to monitor breeding services

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. relevant organizational policy on breeding

KU2. basic of reproductive physiology e.g estrous cycle, signs, etc. and anatomy of reproductive organs in goat, pigs, etc.

KU3. basic of genetics e.g. selective breeding/cross-breeding

KU4. concept of artificial insemination

KU5. semen straw handling procedure and safety requirement in the handling of liquid nitrogen

KU6. technical procedure of artificial insemination

KU7. feeding of breeding animals, mineral supplementation, etc.

KU8. common animal birth-related difficulties in small animals and handling of same.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. prepare a brief case report

GS2. fill monitoring related forms etc.

GS3. read the label of semen straws

GS4. read manufacturer guideline of various common equipment uses in breeding services

GS5. read directives from government/organization / supervising veterinarians

GS6. discuss task lists, schedules, etc. with co-workers

GS7. explain farmers/clients on artificial insemination procedures

GS8. give clear suggestions / guidance to farmers / clients

GS9. make decisions related to time, appropriate application of artificial insemination technologies, etc.

GS10. plan various procedures

GS11. use electronic/mobile tools (where available) to record and send breeding related data to servers

GS12. investigate and analyze in relation to difficulties, failures, etc.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Maintaining database of good animal breeders	**5**	**3**	**-**	**2**
PC1. support farmers/clients with information on sourcing of good breeding animals	-	-	-	-
Assist farmers in quality animal selection / purchase	**10**	**8**	**-**	**2**
PC2. assist farmers/clients in selecting animals with the proper breed and other characteristics for breeding purposes	-	-	-	-
Conduct artificial insemination	**19**	**15**	**-**	**4**
PC3. recognize heat in livestock	-	-	-	-
PC4. use semen of appropriate quality and blood level	-	-	-	-
PC5. comply with the prescribed procedures in handling semen straw and in conducting insemination	-	-	-	-
PC6. practice artificial insemination in time	-	-	-	-
Assist farmers on management of unproductive animals	**11**	**-**	**-**	**6**
PC7. illustrate farmers/clients common infertility issues and their handling	-	-	-	-
PC8. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation, etc.	-	-	-	-
PC9. guide farmers on maintaining an optimum number of animals based on breeding plan and suggest techniques to improve performance	-	-	-	-
Post insemination support, data recording, and Performance monitoring of breeding services	**2**	**11**	**-**	**2**
PC10. support/assist farmer in handling common difficulties related to animal birth	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. use field data collection tools (including electronic reader / mobile-based data collection) as per given specifications	-	-	-	-
PC12. provide the organization with standard required information such as semen used, time of heat, time of insemination, kid/piglet born, etc., needed to monitor breeding services	-	-	-	-
NOS Total	**47**	**37**	**-**	**16**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N4821
NOS Name	Implementation of animal breeding services in small farm animals (if required)
Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Livestock Health Management
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	25/11/2021
Next Review Date	25/11/2024
NSQC Clearance Date	25/11/2021

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

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 centre (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criterion.

6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.

7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Minimum Aggregate Passing % at QP Level : 70

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Minimum Passing % at NOS Level: 70

(**Please note**: A Trainee must score the minimum percentage for each NOS separately as well as on the QP as a whole.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
AGR/N4801.Controlling/restraining / examination of animals	33	48	0	19	100	10
AGR/N4802.Conducting vaccination and implementing regular preventive health care program	35	43	0	22	100	10
AGR/N4805.Veterinary First Aid	34	49	0	15	98	20
AGR/N4807.Assisting government agencies in animal disease control with One Health approach	40	37	0	23	100	10
AGR/N4808.Assisting in veterinary extension services	60	30	0	10	100	20
AGR/N4810.Development program implementation and marketing in the livestock sector	31	40	0	29	100	10
AGR/N4823.Assisting in Animal Welfare, Breed Conservation, and Disaster Management	45	40	0	15	100	10
AGR/N9926.Follow the relevant employability and entrepreneurial practices	30	40	0	30	100	10

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
Total	**308**	**327**	**0**	**163**	**798**	**100**

Optional: 1 Implementation of animal breeding services in small farm animals (if required)

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
AGR/N4821.Implementation of animal breeding services in small farm animals (if required)	47	37	-	16	100	10
Total	**47**	**37**	**0**	**16**	**100**	**10**

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

Glossary

Sector	Sector is a conglomeration of different business operations having similar business 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.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications 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.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation 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/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment 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.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.