Model Curriculum

Animal Health Worker

SECTOR : **AGRICULTURE & ALLIED**
SUB-SECTOR : **AGRICULTURE CROP PRODUCTION**
OCCUPATION : **LIVESTOCK HEALTH MANAGEMENT**
REF ID : **AGR/Q4804, V1.0**
NSQF LEVEL : **3**

Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the
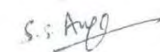
AGRICULTURE SKILL COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Animal Health Worker**' QP No. '**AGR/ Q 4804 NSQF Level 3**'

Date of Issuance: December 23rd, 2014

Valid up to: December 12th, 2015

Authorised Signatory
(Agriculture Skill Council of India)

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

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Animal Health Worker

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Animal Health Worker", in the "Agriculture & Allied" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Animal Health Worker		
Qualification Pack Name & Reference ID. ID	AGR/Q4804, v1.0		
Version No.	1.0	**Version Update Date**	
Pre-requisites to Training	8th Standard passed		
Training Outcomes	**After completing this programme, participants will be able to:** • **Identify sick animals:** Observation of animals, Check body temperature, feeding, respiration etc • **Hold animals for treatment:** Restraining method, casting, Selection of site, tieing • **Provide preventive care to animals as per guideline of veterinarian:** Understand the symptoms of diseased animals, consult veterinarian, follow the preventive care measures • **Provide basic first aid to animals:** Cleaning and washing of wound, dressing of wound, apply ointments, first aid • **Assist public agencies in animal disease control:** Create awareness about the disease preventive measures, promote the actions to be taken etc • **Assist in animal husbandry extension:** Feed and Feed ingredients, fodder preservation, Housing and farm structure • **Assist in disaster management:** Animal Cruelty norms and laws, human animal conflict, basic disaster management • **Assist in public health related services:** Cleaning of shed by using disinfectant**s**		

This course encompasses 8 out of 8 National Occupational Standards (NOS) of "Animal Health Worker" Qualification Pack issued by "Agriculture Skill Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**Introduction** **Theory Duration** (hh:mm) 05:00 **Practical Duration** (hh:mm) 05:00 **Corresponding NOS Code** Bridge Module	• Understand General Discipline in the class room (Do's & Don'ts) • Understand Role of a Animal Health Worker • Differentiate Health and sick animals • Understand the Symptoms of sick animals • Learn and Practice Basic skills of communication • Learn and Practice Basic reading capabilities to enable reading of signs, notices and/or cautions at site.	Laptop, white board, marker, projector
2	**Controlling and restraining of animals** **Theory Duration** (hh:mm) 05:00 **Practical Duration** (hh:mm) 10:00 **Corresponding NOS Code** AGR/N4801	• Study the animal behaviour and response • Practice the animal handling and safety • Use the tools and equipment. • Use personal protective equipment • Practice of first aid	Laptop, white board, marker, projector, rope, first aid kit
3	**Implementing regular preventive animal health care programme** **Theory Duration** (hh:mm) 10:00 **Practical Duration** (hh:mm) 05:00 **Corresponding NOS Code** AGR/N4802	• Practice the animal data recording • Identify and prevent animal diseases • Implement the vaccination schedule of the animals. • Study and practice the pre and post vaccination care about animals. • Work on data tool operations.	Laptop, white board, marker, projector
4	**Veterinary First Aid** **Theory Duration** (hh:mm) 15:00	• Understand the Aseptic solutions. • Take the disease precautions • Use the common medical dozes • Gain knowledge about the use of approved ethno-veterinary practices. • Study and Understand the common scheduled diseases	Laptop, white board, marker, projector, first aid

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 25:00 **Corresponding NOS Code** AGR/N4805	• Practices about veterinary first aids	
5	**Assisting government agencies in animal disease control** **Theory Duration** (hh:mm) 10:00 **Practical Duration** (hh:mm) 05:00 **Corresponding NOS Code** AGR/N4807	• Understand the duties of the government agencies • Gain knowledge about the basic concept of "one health" and its important • Implement of bio security norms as per guidelines • Study and Practice humane culling methods • Gain Knowledge about the scientific disposal of the culled carcasses	Laptop, white board, marker, projector
6	**Assisting in veterinary extension services** **Theory Duration** (hh:mm) 10:00 **Practical Duration** (hh:mm) 20:00 **Corresponding NOS Code** AGR/N4808	• Study and understand extension services • Gain knowledge about the quality parameters • Use the common communication devices • Study and Understand the common feeds and feed ingredients • Study and Practice fodder preservation and enrichment. • Gain knowledge about basics of animal housing and farm structure.	Laptop, white board, marker, projector
7	**Development program implementation and marketing in livestock sector** **Theory Duration** (hh:mm) 15:00 **Practical Duration** (hh:mm) 20:00 **Corresponding NOS Code** AGR/N4810	• Understand the Implementation of government or private development programs. • Motivate and handhold the activities of SHGs • Study and understand the marketing of the farm inputs • Gain knowledge about livestock based business activities • Understand basics of livestock product markets and marketing • Gain knowledge about the common rural development programs of the government	Laptop, white board, marker, projector

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Sr. No.	Module	Key Learning Outcomes	Equipment Required
8	**Assisting in animal welfare, breed conservation and disaster management.** **Theory Duration** (hh:mm) 10:00 **Practical Duration** (hh:mm) 10:00 **Corresponding NOS Code** AGR/N4813	• Understand the human animal conflict • Study and Understand the animal cruelty norms and laws • Apply protection strategies to common conflict situations • Practice basic disaster management	Laptop, white board, marker, projector
9	**Implementation of animal breeding services in small farm animals** **Theory Duration** (hh:mm) 40:00 **Practical Duration** (hh:mm) 80:00 **Corresponding NOS Code** AGR/N4821	• Conduct artificial insemination • Gain knowledge about the infertility problems and handling • Practice appropriate method for feeding and breeding of animals • Understand the common animal birth related problems • Study and understand basic reproductive physiology and genetics.	Laptop, white board, marker, projector
	Total Duration **Theory Duration 120:00** **Practical Duration 180:00**	**Unique Equipment Required:** Laptop, white board, marker, projector, first aid kit	

Grand Total Course Duration: **300 Hours, 0 Minutes**

*(This syllabus/ curriculum has been approved by **Agriculture Skill Council of India)***

Trainer Prerequisites for Job role: "Animal Health Worker" mapped to Qualification Pack: "AGR/Q4804, v1.0"

Sr. No.	Area	Details
1	**Description**	An Animal Health Worker provides preventive health care, assistance in contagious disease control and basic first aid services to farm animal and poultry, mostly in the outdoor setting. He / she also play a role in veterinary extension, disaster management and other environmental, public health related services.
2	**Personal Attributes**	An Animal Health Worker should have a mind for science, belongingness to the community, compassion for animals, good leadership, communication and observation skills. He / she should be physically strong and have manual dexterity to perform on the job.
3	**Minimum Educational Qualifications**	Diploma in Veterinary Science or relevant field (BVSc Preferable)
4a	**Domain Certification**	Certified for Job Role: "Animal Health Worker" mapped to QP: "AGR/Q4804, v1.0". Minimum accepted score is 80%
4b	**Platform Certification**	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/Q1402". Minimum accepted % as per respective SSC guidelines is 70%.
5	**Experience**	• MVSC with 1 Year experience, • BVSC with 3 Years of experience, • Diploma in Veterinary Science with relevant experience Of 5 Years

Annexure : Assessment Criteria

Assessment Criteria	
Job Role	**Animal Health Worker**
Qualification Pack	**AGR/Q4804, v1.0**
Sector Skill Council	**Agriculture**

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training canter based on this criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 60% in aggregate and 40% in each NOS
6	The marks are allocated PC wise; however, every NOS will carry a weight age in the total marks allocated to the specific QP

Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
1. AGR/N4801: Controlling / restraining of animals	PC.1 prepare and make the animal to cooperate during handling.	100	20	10	10
	PC2. determine flight zone and point of balance of the animal and approach, hold animal securely and safely.		15	7	8
	PC3. achieve minimum stress and injury to the animal.		5	3	2
	PC4. ensure zero accident.		5	3	2
	PC5. to be able to follow the prescribed procedures related to each tools and equipment.		30	15	15
	PC6. protect oneself from any physical injury arising out of animal handling		5	2	3
	PC7. use various personal protective materials / equipment		10	5	5
	PC8. assess the risk of diseases which can be transmitted from animal to human		10	5	5
	Total		**100**	**50**	**50**
2. AGR/N4802: Implementing regular preventive animal health care program	PC1. use point of care / field data collection tools (including electronic / mobile based data collection) as per given specifications.	100	5	2	3
	PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.		5	2	3
	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	2	3
	PC4. undertake appropriate action which is just for a farmer / client as far as preventing occurrence of preventable known disease(s) in his / her animal / farm is /are concerned.		5	2	3
	PC5. take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s).		5	2	3
	PC6. create future demand for preventive services by appropriately communicating the risk.		5	2	3
	PC7. Ensure high rate of voluntary compliance of bio-security norms.		7	5	2
	PC8. schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.		5	2	3
	PC9. identify sick animals or animals not fit for vaccination.		5	2	3
	PC10. be prepared to face any emergency situation following vaccination.		5	2	3
	PC11. report side-effect (if any)		5	2	3

Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC12. conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.		5	2	3
	PC13. ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.		5	2	3
	PC14. rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.		5	2	3
	PC15. follow all scientific guideline related to vaccine administration procedure e.g. use of appropriate dose, use of separate syringe for different vaccines etc.		10	5	5
	PC16. follow local area guideline regarding species, age and season of de-worming.		5	2	3
	PC17. use only permissible products, following appropriate dose and procedure of administration (As per directive of supervising veterinarian)		2	2	0
	PC18. use only permissible products, following appropriate dose and procedure of use / application.		2	2	0
	PC19. ensure scale of operation by involving maximum number of farmers in a given area.		1	1	0
	PC20. take precaution for minimum effect on animal / immediate environment.		2	1	1
	PC21. ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.		2	2	0
	PC22. timely report vaccine failure to appropriate authority as per format.		1	1	0
	PC23. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.		2	2	0
	PC24. ensure herd coverage and continuity of vaccination program		1	1	0
	Total		**100**	**50**	**50**
3. AGR/N4805 : Veterinary first aid	PC1. prepare aseptic solution	**100**	5	2	3
	PC2. diagnose emergency situation and use common suggested medications / follow precautions as per manual.		25	10	15
	PC3. describe common symptoms of diseases in animals and report accordingly.		15	8	7
	PC4. identify common infectious / scheduled animal diseases and ensure timely reporting of the same.		7	5	2

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Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC5. identify from symptoms the cause of the accident.		8	4	4
	PC6. assess the severity of the accident and suggest for consultation with veterinarian.		5	5	0
	PC7. provide basic / immediate care as specified for each type of accidents.		15	5	10
	PC8. to be able to stop bleeding, clean and protect the wound.		10	5	5
	PC9. to be able to ensure aseptic handling and protection of the prolapsed organ(s) before the arrival of veterinarian.		10	6	4
	Total		**100**	**50**	**50**
4. AGR/N4807: Assisting government agencies in animal disease control	PC1. relate to multiple factors that can predispose or cause spread of diseases		8	6	2
	PC2. appreciate the 'one health approach' in controlling diseases and cooperate with partnering agencies (s).		5	3	2
	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	**100**	7	3	4
	PC4. update government records on livestock markets / farms.		5	3	2
	PC5. engage with officials of local self-government and market institutions.		8	5	3
	PC6. guide implementation of approved government guideline related to market operation, cleaning etc.		8	2	6
	PC7. describe routes in relation to approved maps / known border areas.		5	3	2
	PC8. apply judgment regarding nature of trade / frequency of movement / animal holding areas, volume etc.		5	0	5
	PC9. report animal movement as per standard format.		5	3	2
	PC10. understand common activities from farm to fork, relationships between various types of people, movement of goods in livestock / poultry related business		5	3	2
	PC11. identify risky practices and report to veterinarians / superior officers.		8	5	3
	PC12. follow directive and guideline.		5	3	2
	PC13. use standard format for reporting.		5	3	2
	PC14. ensure humane culling methods.		8	3	5
	PC15. ensure scientific disposal of culled carcasses as per guideline.		8	3	5
	PC16. ensure use of appropriate disinfectant and adoption to prescribed procedure of		3	0	3

Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
	application.				
	PC17. ensure coverage of areas / farms as per suggestion of government authority.		2	2	0
	Total		**100**	**50**	**50**
5. AGR/N4808: Assisting in veterinary extension services	PC1. understand and explain the applicability and benefit associated with common approved technology(s) / best practice(s) in the context of local situations, opportunities and constraints.	**100**	35	15	20
	PC2. give feedback on technology application in field and need for improvement (if any).		10	6	4
	PC3. organize extension events based on farmer convenience and seasonal suitability.		15	7	8
	PC4. understand and explain quality parameters regarding various farm inputs.		10	7	3
	PC5. scout sources, plan and organize farmers for intelligent (timely, quality and cost based) procurement of inputs.		10	5	5
	PC6. keep record that can help make farmer meeting and farm school activities 'targeted' and 'need based'		10	5	5
	PC7. use modern communication devices, audio-visual aids to explain farmers / clients.		10	5	5
	Total		**100**	**50**	**50**
6. AGR/N4810 : Development program implementation and marketing in livestock sector	PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the promoted project / program.	**100**	10	5	5
	PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs.		10	4	6
	PC3. attend and cooperate during meetings / programs of farmer's institutions / panchayats.		10	4	6
	PC4. inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries.		10	4	6
	PC5. facilitate organization's / panchayat's endeavor to ensure convergence of development projects for synergy.		5	5	0
	PC6. motivate and handhold formation of self-help groups.		15	6	9
	PC7. guide farmers on business options and basic economics of various livestock linked activities.		15	6	9
	PC8. motivate farmers to produce for market and ensure aggregation, collective marketing of livestock products		10	5	5
	PC9. provide market related e.g. prices etc. information to farmers.		7	3	4

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Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC10. provide information on livestock farm inputs e.g. feed, fodder, supplements etc.		8	8	0
	Total		**100**	**50**	**50**
7. AGR/N4813 : Assisting in animal welfare, breed conservation and disaster management	PC1. explain the cruelty for effective reporting.	**100**	10	5	5
	PC2. explain stakeholders on common prevention and protection strategies related to common conflict situation.		10	5	5
	PC3. scout and engage with interested breeding farms / goshala's (Protective shelters for cows in India) for conservation of purebred animals.		10	5	5
	PC4. help in stocking (as a preparedness) and mobilization of feed / fodder at the time of disasters.		10	5	5
	PC5. work with community and disaster management authorities to provide safe passage to animals / livestock.		25	12	13
	PC6. provide care / shelter to animal in distress		15	8	7
	PC7. undertake appropriate measures for carcass disposal.		10	5	5
	PC8. undertake culling and other measures suggested in case of disease related emergencies.		10	5	5
	Total		**100**	**50**	**50**
8. AGR/N4821 Implementation of animal breeding services in small farm animals (if required)	PC1. help farmers / clients with information on sources of good breeding animals.	**100**	10	2	8
	PC2. assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose.		10	5	5
	PC3. detect heat in animals such as goat and pigs.		10	5	5
	PC4. use semen of appropriate quality and blood level.		5	5	0
	PC5. follow protocols pertaining to farm bio-security, safety, hygiene and animal welfare.		10	5	5
	PC6. follow the prescribed procedures in handling semen straw and in conducting insemination.		20	8	12
	PC7. conduct artificial insemination in time.		5	5	0
	PC8. guide farmers / clients on common infertility issues and their handling		5	5	0
	PC9. guide farmers on appropriate feeding of breeding animals e.g. mineral supplementation etc.		5	5	0

Assessable Outcome	Assessment Criteria	Total Mark (600)	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC10. guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.		5	2	3
	PC11. guide / assist farmer in handling common difficulties related to animal birth.		5	1	4
	PC12. use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.		5	1	4
	PC13. provide organization with standard required information needed to monitor breeding services.		5	1	4
			100	50	50
	Grand Total	800	800	400	400
	Percentage Weightage:			50%	50%
	Minimum Pass% to qualify (aggregate):			60%	