

Model Curriculum

Veterinary Clinical Assistant

SECTOR: AGRICULTURE AND ALLIED
SUB-SECTOR: ANIMAL HUSBANDRY
OCCUPATION: LIVESTOCK HEALTH MANAGEMENT
REF ID: AGR/Q4802, V1.0
NSQF LEVEL: 5



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: **'Veterinary Clinical Assistant'** QP No. **'AGR/Q4802 NSQF Level 5'**

Date of Issuance: March 24th, 2018

Valid up to: March 31st, 2021

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



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Authorised Signatory
(Agriculture Skill Council of India)

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Veterinary Clinical Assistant

CURRICULUM / SYLLABUS

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

Program Name	Veterinary Clinical Assistant		
Qualification Pack Name & Reference ID.	AGR/Q4802, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	12 th Standard pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Provide basic curative and preventive care to animals as per guideline of veterinarian. • Provide basic first aid to animals. • Provide assistance to veterinarian during surgery in hospital and clinic setting. • Provide basic companion animal care. • Assist in veterinary hospital and clinic management. • Conduct common laboratory test. • Assist in implementation of animal breeding services as per guideline. • Assist in implementation of guideline related to animal welfare. • Assist in breed conservation. • Assist in disaster management • Supervise management of livestock farms. • Assist in implementation of development programs. • Assist in public health related services and other regulatory activities -when working with government. • Assist in veterinary care of wild animals / animals in captivity. 		

This course encompasses 14 out of 14 National Occupational Standards (NOS) of “Veterinary Clinical Assistant” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
1	Introduction Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 8:00 Corresponding NOS Code Bridge Module	<ul style="list-style-type: none"> Identify the principles of general discipline in the class room (Do's & Don'ts) Understand the linkage between rural livelihood and livestock farming Understand the scope and demand of veterinary service (including laboratory services) Understand companion animal sector and general expectation from clients Familiarize with the laws / rules related to Minor Veterinary Practices / Drug dispensing and the importance of supervision by registered veterinarian. Understand the role and responsibility of a Veterinary Clinical Assistant in public and private services 	Laptop, white board, marker, projector.
2	Controlling/ restraining of animals Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR / N4801	<ul style="list-style-type: none"> Familiarize with the external body parts and organ system of farm animals in brief. Familiarize with the scientific way of approaching and moving animals. Familiarize with the common behaviour of farm animals. Practice the common methods of restraining animals and tools used for the same Appreciate personal safety and use appropriate personal protective equipments 	Laptop, white board, marker, projector, Animals for practice of restraining and Animal casting kit e.g. ropes etc.
3	Implementing regular preventive animal health care program Theory Duration (hh:mm) 19:30 Practical Duration (hh:mm) 56:30 Corresponding NOS Code AGR/N4802	<ul style="list-style-type: none"> Identify animals and maintain proper record Observe the environment and take history Conduct routine examination of health of animals. Familiarize with the causes and ways of transmission of diseases. Identify common transmissible diseases Identify zoonotic diseases. Familiarize with the concept of notifiable disease. Familiarize with the common measures that can prevent diseases 	Laptop, while board, projector, Kit to help practice preventive services.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		<p>– structure and secretion of milk.</p> <ul style="list-style-type: none"> • Familiarize with the classification of micro-organism. • Familiarize with the factors affecting growth of micro-organisms. • Familiarize with the types and sources of infection, method of transmission of infection. • Brief about inflammation: definitions, classification; cardinal signs and systemic effects • Understand the concept of immunity to microbes. • Familiarize with the classification of diseases. • Understand the meaning of genetic, intrinsic and extrinsic causes of disease. • Identify the common signs of diseases, abnormality of body structures and functions. • Familiarize with the general systemic states, hyperthermia, hypothermia, fever, septicemia, toxemia, shock, allergy, anaphylaxis, oedema, coma, anaemia, common clinical poisonings and dehydration. • Familiarize with the classification of parasites and life cycle of important parasites (state context). • Identify the common production and deficiency diseases and rumen dysfunctions. • Identify various common diseases of new born. • Appreciate the importance of proper listening of complain by animal owners. • Illustrate about things to observe, and ask the animal owner (observation and history taking) • Record the signs. • Appreciate the importance proper diagnosis, differential diagnosis and need of consultation with veterinarian. • Appreciate the need of considering the cost of treatment for a client / farmer. • Prepare animals and conduct basic diagnostic physical test using tools (where required) • Familiarize with the basic interpretation of common physical 	

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		test. <ul style="list-style-type: none"> • Familiarize with the basic aspect of screening of animals for diseases like mastitis, tuberculosis and brucellosis • Familiarize with the sources of poisoning, toxic weeds and plants of local area. • Familiarize with the nature of injuries vis a vis events. • Familiarize with the names and use of common laboratory test for confirmatory diagnosis of ailments. • Understand the importance of post mortem and perform preparation for same for veterinarian. • Appreciate the personal safety while assisting veterinarian in doing post mortem. • Illustrate the methods of preserving organs. • Perform collection and dispatch of various common samples to laboratories (including for toxicological analysis) as per veterinarian's guidance 	
5	Providing curative treatment for common animal diseases Theory Duration (hh:mm) 96:00 Practical Duration (hh:mm) 264:00 Corresponding NOS Code AGR/N4804	<ul style="list-style-type: none"> • Perform assessment of physical state of an animal and degree of seriousness of presenting signs. • Familiarize with the right of animal owners, service quality and requirement of continuity of services. • Communicate with animal owners regarding prescribed treatment and instructions thereof. • Familiarize with the initial care for common signs and follow model guideline of curative care approved by supervising veterinarian. • Determine the suitability of the animal condition to receive fluid therapy. • Follow the procedure for administering fluid therapy • Understand the de-worming procedures. • Familiarize with the application of plaster cast or splint for fracture immobilization and other bandaging procedure in large and small animals. • Understand the importance of 	Laptop, white board, marker, projector Live animals and Kit for demonstration of drug administration.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		<p>nutrition in health and perform feeding of sick animals.</p> <ul style="list-style-type: none"> Understand the general principles of antimicrobial therapy and the concept of antimicrobial resistance residual effect and drug contraindications. Familiarize with the common category of therapeutics, their uses, standard dose and associate risk including residual effect on livestock products. Understand, appreciate the risk and follow guideline on compounding and dispensing of common drugs. Familiarize with the dispensing related rules of local drugs authority. Perform storage and reconstitution of drugs (where required) Familiarize with the routes of drug administration and perform administration of drugs as per the prescription of veterinarian Use devices and kits for treatment / administration of medicines. Perform approved ethno-veterinary practices / use permissible products. Maintain the post treatment records 	
6	<p>Veterinary first aid</p> <p>Theory Duration (hh:mm) 20:00</p> <p>Practical Duration (hh:mm) 52:00</p> <p>Corresponding NOS Code AGR/N4805</p>	<ul style="list-style-type: none"> Understand emergency conditions and pre-disposing factors. Undertake basic treatment of emergency conditions (including use of approved traditional medicinal products and practices) Undertake common first aid measures Familiarize with the nature of wounds vis a vis procedure for cleaning and protection Perform treatment of superficial wounds / abscess Handle fractures and horn injury Provide first aid during animal birth Handle poisoning Perform administration of medicine to injured animals Undertake the safety measures during first aid 	Laptop, white board, marker, projector, Kit required to demonstrate first aid.
7	<p>Assistance during veterinary surgery in hospital/ clinic setting</p>	<ul style="list-style-type: none"> Understand the basic objective of surgical sterilization Familiarize with the sterilization procedures for surgical instruments 	Laptop, white board, marker, projector, Models and charts, surgical instruments,

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
	<p>Theory Duration (hh:mm) 72:00</p> <p>Practical Duration (hh:mm) 168:00</p> <p>Corresponding NOS Code AGR/N4816</p>	<ul style="list-style-type: none"> Identify common surgical equipment, instruments and suture materials. Carry out preparation of surgical packs, instruments, drapes, operation theatres. Familiarize with anaesthetic apparatus, monitoring equipment and accessories. Adhere to standard operating procedures (Pre-surgical, during surgery and post-surgery) Carry out preparation of surgical patients. Undertake aseptic dressing and bandaging. Familiarize with the underlying causes of prolapse of uterus, dystocia and retention of placenta. Familiarize with the appropriate equipment, season, age of animal for non-surgical castration. Perform non-invasive or non-surgical castration as per SOP suggested by Animal Welfare Board of India. Familiarize with the basic anatomy of female reproductive system of farm and companion animals. Undertake immediate care in cases such as prolapse of uterus, dystocia and retention of placenta as per approved SOPs Illustrate the possible complications, welfare requirement and perform dehorning, debeaking, hoof trimming and tooth rasping 	<p>facility / kit to demonstrate sterilization, dressing and bandaging, castrator and other equipment to demonstrate debeaking, dehorning, hoof trimming etc.</p>
8	<p>Providing companion animal care</p> <p>Theory Duration (hh:mm) 20:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code AGR/N4817</p>	<ul style="list-style-type: none"> Identifies the species and common breeds of companion animals. Communicate to client on suitability of any breed of companion animals. Understand the common behaviour related problems of pet animals. Familiarize with the local municipality rules about pet identification and registration. Understand feeding techniques and basic nutrient requirement of pet animals. Communicate about quality of various pet food brands Perform retailing of pet foods, accessories Undertake precaution and perform grooming, brushing and bathing etc. 	<p>Laptop, white board, marker, projector, charts, Kit for demonstration of vaccination, pet grooming, Pet food, and other pet accessories.</p>

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		<ul style="list-style-type: none"> Familiarize with the normal vaccination schedule Conduct vaccination under veterinary supervision 	
9	Assistance in veterinary hospital / clinic management. Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code AGR/N4818	<ul style="list-style-type: none"> Familiarize with the importance, rights of clients / visitors to hospital / clinic. Lead customer care and front office management (e.g. maintaining records, fixing appointments and handling of queries) Maintain cleanliness and ensure appropriate storage of chemicals, hazardous materials and equipment. Supervise the approved procedure of waste disposal. Understand standard organizational procedure of admission, care of admitted animals in kennels. Familiarize with the assisted feeding of animals Familiarize with the five freedom of animal welfare in the context of admitted animals. Operate computer with client management software. Promote clinic / hospital services, client education initiatives Familiarize with the nutrient requirement and feeding plan of common farm animals Use common communication / electronic devices used in hospital and clinic setting 	Laptop, white board, marker, projector, charts, photographs, video shows of fodder treatment, Feed ingredient and compound feed for quality testing.
10	Conducting common laboratory test Theory Duration (hh:mm) 32:00 Practical Duration (hh:mm) 48:00 Corresponding NOS Code AGR/N4819	<ul style="list-style-type: none"> Identify and use various common lab equipment and appliances in the context of laboratories for disease diagnosis, food safety, feed analysis and semen processing Undertake receipt, recording and marking of samples. Familiarize with the methods of sterilization of glassware Familiarize with the bio-security guidelines and ensure proper cleaning and disinfection of laboratory premises Undertake preparation of common microbiological culture medias / stains / reagents Undertake collection, preservation and dispatch of various body 	Laptop, white board, marker, projector, charts, photographs, Tags, Applicator.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		<p>samples and sample of feed and livestock products.</p> <ul style="list-style-type: none"> • Undertake processing of sample for parasitological examination. • Conduct select common laboratory test (as notified by state regulatory authority for lab technicians) for disease diagnosis in animals, detection of adulteration / feed quality testing etc. under the supervision of veterinarian. • Take care of the laboratory animals as per standard institutional guideline and safety norms. • Familiarize with the radiation hazards and safety measures to be undertaken • Familiarize with the directional terms for veterinary radiology to assist veterinarian in completion of diagnostic radiographs and ultrasound 	
11	<p>Implementation of veterinary public health and other regulatory activities</p> <p>Theory Duration (hh:mm) 48:00</p> <p>Practical Duration (hh:mm) 72:00</p> <p>Corresponding NOS Code AGR/N4811</p>	<ul style="list-style-type: none"> • Perform initial identification of suspects during antemortem inspection of livestock or during handling of quarantine check post. • Familiarize with the common practice of livestock product adulteration and perform physical assessment of milk and meat quality for such adulteration. • Familiarize with the nutrition quality of livestock products for consumer education and promotion of products. • Undertake scientific handling of carcass and animal waste management • Familiarize with the technologies for livestock by-product utilization and about local enterprises using the same. • Familiarize with the water requirement of livestock and ways to ensure judicious use of water. • Promote technologies that can reduce pollution from livestock farms e.g. technologies that can reduce methane emission from livestock. • Create awareness on zoonotic diseases. • Familiarize with the bio-security and the need of quarantine services and 	<p>Laptop, white board, marker, projector, point of use Kits (where available) to demonstrate quality / adulteration of livestock products.</p>

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		follow the organizational guideline. <ul style="list-style-type: none"> Familiarize with the common practices in local husbandry and veterinary treatment context that are detrimental to public health. Familiarize with the important public health related laws and the established procedure of reporting things that are against law 	
12	Implementation of animal breeding Services Theory Duration (hh:mm) 180:00 Practical Duration (hh:mm) 300:00 Corresponding NOS Code AGR/N4812	<ul style="list-style-type: none"> Familiarize with the local sources of good breeding animals. Familiarize with the procedure of selection of animals for breeding. Familiarize with the reproductive system in farm animals. Familiarize with the basic aspect of reproductive physiology and genetics in case of farm animal. Identify signs of heat in various farm animals. Familiarize with the importance of artificial insemination and do's and don'ts for same. Familiarize with the proper handling and safety guidelines for liquid nitrogen, Familiarize with the structure of liquid nitrogen container. Conduct artificial insemination in cattle and small animals. Familiarize with the process of parturition / farrowing in cattle, goat and sheep and pig. Undertake performance monitoring and maintain mandatory breeding records at farmers / organization level (including IT based system for breeding data management) Communicate to farmers about scientific breeding plan approved by supervising veterinarian / organization. Perform pregnancy diagnosis as per guideline / facility of organization. Support farmers in handling common birth related difficulties. Manage reproductive failure / infertility in large and small farm animals. Familiarize with the basic aspect of breeding bull management. Support activities in bull stations such as preparation for semen 	Laptop, white board, marker, projector, required quantity of semen doses and LN storage containers, AI guns, and required AI accessories. Reproductive organs from slaughter house for practice of palpation and passing of A I gun by trainees.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
		collection, maintenance of various common equipment, storage and distribution of semen straws	
13	Assisting in animal welfare, breed conservation and disaster management Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 12:00 Corresponding NOS Code AGR/N4813	<ul style="list-style-type: none"> Understand the concept of animal welfare. Familiarize with the instances of cruelty commonly inflicted on animals. Familiarize with the reasons of human animal conflict and support authorities in implementing action plans Familiarize with the laws related to prevention of cruelty. Familiarize with the indigenous breeds of economic importance Familiarize with the importance and one's own role in conservation of indigenous livestock Familiarize with the basic aspects of disaster management 	Laptop, white board, marker, projector, charts, photographs
14	Assisting in livestock farm management Theory Duration (hh:mm) 48:00 Practical Duration (hh:mm) 72:00 Corresponding NOS Code AGR/N4814	<ul style="list-style-type: none"> Familiarize with the routine activities vis a-vis their importance in organized farms. Supervise farm laborers. Familiarize with the basic economics of a livestock farm e.g. cost of production / profit and loss. Perform regular record keeping and monitor the performance. Undertake feed procurement and quality control. Familiarize with the guidelines related to bio-security in organized farms. Guide farmers / entrepreneurs on measures to be taken in connection with health, animal movement, pollution and unusual death. Guide farmers / entrepreneur on fodder cultivation and other non-grain feeding system. 	Laptop, white board, marker, projector, charts
15	Assisting in veterinary care of wild animals (if required) Theory Duration (hh:mm) 32:00 Practical Duration	<ul style="list-style-type: none"> Supervise watering, feeding and cleaning of enclosures. Familiarize with the provisions aimed at behavioural and environmental enrichment of captive animals. Familiarize with the importance and common methods of wild animal conservation. Perform administration of medication 	Laptop, white board, marker, projector, charts, photographs etc.

Sr. No.	Module	Key Learning Outcomes	Equipment /aid Required
	(hh:mm) 48:00 Corresponding NOS Code AGR/N4815	in wild animals as per veterinarian's guidance. <ul style="list-style-type: none"> • Perform first aid of common injuries and wound care. • Familiarize with the health and birth / death record keeping in the context of wild animals. • Familiarize with the protocol on bio-security and preventive care in wild animal context. • Undertake preparation for necropsy of dead animals. • Familiarize with the protocol and support team work in capturing and restraining of wild animals. • Familiarize with the safety guidelines in wild animal handling and handling of medication used in tranquilization. 	
	Total Duration: Theory Duration (hh:mm) 787:30 Practical Duration (hh:mm) 1455:30	Unique Equipment Required: Animal casting or restrain kit e.g. Casting Ropes (10-15m), Travis, Simple Kit required to attend first aid / treatment along with gloves, face masks etc. for protection, Subject specific aids like: Interactive CD-ROM, films, charts, life like models, mannequins, plastinated specimens, preserved body organs etc. Digital Thermometer. Cardboard sheets, Ear tags and ear tag applicators, Measuring tape, Surgical instruments, facility / kit, dressing and bandaging, castrator and other equipment to demonstrate debeaking, dehorning, hoof trimming etc. Kit for demonstration of vaccination, pet grooming, Pet food, and other pet accessories. Kits to demonstrate test for quality / adulteration of livestock products, Kits to demonstrate administration of medicines, Kit to demonstrate vaccination on live animals e.g. Vaccines, vaccinator, LN storage containers, AI guns, and required AI accessories, Reproductive organs from slaughter house for practice of palpation and passing of AI guns.	

Grand Total Course Duration: **2243 Hours 0 Minutes**

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

Trainer Prerequisites for Job role: “Veterinary Clinical Assistant” mapped to Qualification Pack: “AGR/Q4802, v1.0”

Sr. No.	Area	Details
1	Description	Trainer is responsible for educating the trainees –Preventive and curative care, first aid, hospital management, assistance during surgery, common laboratory test, companion animal care, animal breeding, farm management, public health etc.
2	Personal Attributes	Trainer should be Subject Matter Expert. He/ she should have good communication, leadership, observation and practical oriented skills.
3	Minimum Educational Qualifications	B. V. Sc.
4a	Domain Certification	Certified for Job Role: “ <u>Veterinary Clinical Assistant</u> ” mapped to QP: “ <u>AGR/Q4802, v1.0</u> ”. Minimum accepted score is 80%
4b	Platform Certification	Certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “MEP/Q0102”. Minimum accepted score is 80%.
5	Experience	<ul style="list-style-type: none"> • M.V.Sc./M.Sc. (Animal Science) with 1 year of relevant work experience • B. V. Sc. with 3 years of relevant work experience

Annexure: Assessment Criteria

Job Role	Veterinary Clinical Assistant
Qualification Pack	AGR/Q4802, v1.0
Sector Skill Council	Agriculture

Guidelines for Assessment:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
5. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
6. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Assessment Outcomes	Assessment Criteria for outcomes	Total Mark (1400)	Marks Allocation		
			Out Of	Theory	Skills Practical
1. AGR/ N4801 Controlling / restraining of animals	PC1. prepare and make the animal to cooperate during handling.	100	20	5	15
	PC2. determine flight zone and point of balance of the animal and approach, hold animal securely and safely		15	2	13
	PC3. achieve minimum stress and injury to the animal.		5	3	2
	PC4. ensure zero accident.		5	3	2
	PC5. to be able to follow the prescribed procedures related to each tools and equipment.		30	5	25
	PC6. protect oneself from any physical injury arising out of animal handling		5	3	2
	PC7. use various personal protective materials / equipment.		10	5	5
	PC8. assess the risk of diseases which can be transmitted from animal to human.		10	5	5
			100	31	69
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	1	4
	PC2. ensure species / population or sample / geographical / specific area coverage for data collection as per given instruction.		5	1	4
	PC3. regularly collect and submit health, production and breeding data related to attended individual / herd of animals to appropriate authority on time as per given format / criteria.		5	0	5
	PC4. undertake appropriate action which is just for a farmer / client as far as preventing occurrence of preventable known disease(s) in his / her animal / farm is /are concerned.		5	1	4
	PC5. take only such actions / use product / follow procedure which is prescribed in the guideline for the scheduled diseases (s).		5	2	3
	PC6. create future demand for preventive services by appropriately communicating the risk.		5	1	4
	PC7. ensure high rate of voluntary compliance of bio-security norms.		7	1	6
	PC8. schedule vaccination program at appropriate time ensuring technical requirement related to environment and convenience of farmer / client.		5	2	3
	PC9. identify sick animals or animals not fit for vaccination.		5	1	4
	PC10. be prepared to face any emergency situation following vaccination.		5	1	4
	PC11. report side-effect (if any)		5	1	4

	PC12. conduct self-evaluation of procedure of procurement / infrastructure for storage etc. and use of vaccines from appropriate source only.		5	2	3
	PC13. ensure cold chain and compliance of other guideline during transport to farmers / clients place and point of use.		5	2	3
	PC14. rotate vaccine stock in hand so that oldest vaccines are used first, ensuring that no vaccine is used after expiration date.		5	2	3
	PC15. follow all scientific guideline related to vaccine administration procedure e.g. Use of appropriate dose, use of separate syringe for different vaccines etc.		10	1	9
	PC16. follow local area guideline regarding species, age and season of de-worming.		5	0	5
	PC17. use only permissible products, following appropriate dose and procedure of administration (As per directive of supervising veterinarian)		2	2	0
	PC18. use only permissible products, following appropriate dose and procedure of use / application.		2	2	0
	PC19. ensure scale of operation by involving maximum number of farmers in a given area.		1	1	0
	PC20. take precaution for minimum effect on animal / immediate environment.		2	0	2
	PC21. ensure record of given vaccine and administration related information (individual / herd level) along with batch numbers etc. as per given format.		2	1	1
	PC22. timely report vaccine failure to appropriate authority as per format.		1	1	0
	PC23. support laboratory for sample test etc. as per directive for monitoring of success of vaccination program.		2	0	2
	PC24. ensure herd coverage and continuity of vaccination program.		1	1	0
			100	27	73
3. AGR/ N4803 Provisional Diagnosis of common animal diseases (including poisoning and injury)	PC1. communicate with owner to record presenting complaint, history of events, present and previous illness / treatment (at individual / herd level).		5	1	4
	PC2. interpret existing record.		8	3	5
	PC3. help client / farmer in filling up of daily health (including herd health in farm condition) monitoring proforma as suggested by supervising veterinarian or as per standard manual.		5	1	4
	PC4. note changes in daily care /rearing / husbandry practices and in immediate environment.	100	5	1	4

	PC5. guide client / farmer on ways to handle diseased animals (e.g. isolation, cleaning of waste etc.).		5	1	4
	PC6. ensure early reporting of ailments from clients / farmers.		3	2	1
	PC7. describe physical symptoms / abnormality as per approved manuals for common disease symptoms.		8	5	3
	PC8. conduct and interpret body scoring		8	2	6
	PC9. accurately conduct and report diagnostic physical test as prescribed in manuals.		8	3	5
	PC10. understand and conduct a preliminary differential diagnosis for communication to supervising veterinarian (where required)		5	2	3
	PC11. diagnose common ailments and poisoning.		7	2	5
	PC12. take history of death and avoid post mortem in suspected case of anthrax.		3	3	0
	PC13. arrange the examination in proper lighting condition and at a schedule place.		2	2	0
	PC14. follow standard procedure in opening of the carcass or as directed by veterinarian.		5	1	4
	PC15. collect samples, record common finding as dictated by veterinarian following format and rule prescribed in prevention and control of infectious and contagious diseases in animals (manner of post mortem examination and disposal of carcass) rules, 2010.		5	1	4
	PC16. ensure disinfection of the place where post mortem was conducted		3	1	2
	PC17. understand and communicate regarding basic laboratory test options.		5	2	3
	PC18. collect samples for laboratory test as per approved manual.		5	2	3
	PC19. follow guideline / manual.		5	2	3
			100	37	63
4. AGR/ N4804 Providing curative treatment for common animal diseases	PC1. communicate with supervising veterinarian on onset, physical state of animal(s), degree of symptoms, location and economic factors.		25	10	15
	PC2. value right of animal owners such as right to co-operate, quality and continuity of services.		5	5	0
	PC3. communicate with animal owners on prescribed treatment, cost implication, possible affects, importance of continuity of treatment, important instructions (including use of products) to be followed etc.		15	8	7
	PC4. follow the procedures as prescribed in manual		15	5	10
	PC5. determine suitability of the animal condition (at the point of care) to receive prescribed fluid therapy.	100	5	3	2

	PC6. use required kits, devices e.g. iv catheters accurately		5	2	3
	PC7. follow aseptic procedure and comfort need of animals under treatment while administering		5	2	3
	PC8. follow dispensing process as per the manual of state drug authority.		5	3	2
	PC9. follow guideline on permissible and extent of use of compounded preparation in animal treatment including material used in such compounding.		5	3	2
	PC10. prepare / restrain animals for administration of drugs.		3	0	3
	PC11. prepare / reconstitute prescribed drugs (where required)		3	1	2
	PC12. use appropriate route / site for administration.		7	1	6
	PC13. help farmer / client to keep record of treatment provided.		2	1	1
			100	44	56
5. AGR/ N4805 Veterinary first aid	PC1. prepare aseptic solution.		5	2	3
	PC2. diagnose emergency situation and use common suggested medications / follow precautions as per manual.		25	10	15
	PC3. describe common symptoms of diseases in animals and report accordingly.		15	8	7
	PC4. identify common infectious / scheduled animal diseases and ensure timely reporting of the same.		7	5	2
	PC5. identify from symptoms the cause of the accident.		8	2	6
	PC6. assess the severity of the accident and suggest for consultation with veterinarian.		5	5	0
	PC7. provide basic / immediate care as specified for each type of accidents.		15	5	10
	PC8. to be able to stop bleeding, clean and protect the wound.		10	2	8
	PC9. to be able to ensure aseptic handling and protection of the prolapsed organ(s) before the arrival of veterinarian.		10	2	8
			100	41	59
6. AGR/ N4816 Assistance during veterinary surgery in hospital / clinic setting.	PC1. keep surgical environment as clean as practicable within the limits of the premises and the surgical procedure to take place.		5	3	2
	PC2. prepare / sterilize surgical equipment and materials according to guideline.		5	2	3
	PC3. place surgical equipment and materials in the correct position to support the surgical procedure.		5	2	3
	PC4. keep ready necessary information e.g. size, age, weight & clinic record on history and concurrent treatment.		5	2	3
			100	41	59

	PC5. bring the animal safely to operation theater and restraint it appropriately.		5	2	3
	PC6. encourage the animal to feel at ease in clinical environment.		3	1	2
	PC7. identify surgical sites and ensure the appropriate pre-surgical procedure is undertaken.		7	4	3
	PC8. prepare anesthetic equipment, materials and gases. (as required)		5	2	3
	PC9. observe / monitor vital signs after anesthesia as suggested by veterinarian.		5	1	4
	PC10. establish the assistance that may be required for the concerned surgery.		5	4	1
	PC11. provide equipment and materials to veterinary surgeon.		5	2	3
	PC12. record information regarding surgical procedure (if any) as dictated by veterinary surgeon.		5	2	3
	PC13. appropriately use permitted equipment.		5	1	4
	PC14. ensure appropriate season (early spring or late fall) and age of the animal		5	5	0
	PC15. ensure pre-examination of animal and follow standard operating procedure (SOP) as suggested by Animal Welfare Board of India e.g. use of sedative.		5	2	3
	PC16. follow standard operating procedure (SOP) as prescribed by organization.		5	2	3
	PC17. to be able to follow standard operating procedure (SOP) as prescribed by organization.		5	2	3
	PC18. ensure appropriate methods to prevent the animal interfering with wounds, dressings and catheters.		5	2	3
	PC19. recognize sign of pain and distress.		5	1	4
	PC20. obtain and record monitoring information required by veterinary surgeon correctly.		5	2	3
			100	44	56
7. AGR/ N4817 Providing companion animal care.	PC1. prepare and make the animal to cooperate during the procedure (s).		8	2	6
	PC2. conduct thorough inspection of animal's body, including the eyes, ears, mouth, throat, neck, tail, underside, legs, and paws for external parasite, injury etc.		7	2	5
	PC3. record condition of animal coat and report abnormality to veterinarian.		7	3	4
	PC4. use appropriate and approved appliances and products.		8	3	5
	PC5. suggest on vaccination schedule and conduct routine vaccination under supervision of veterinarian.		18	7	11
	PC6. guide customers on breed selection.	100	8	4	4

	PC7. ensure or guide clients on pet registration with local government authority.		5	2	3
	PC8. guide customers on common behavior related problems.		5	5	0
	PC9. promote scientific feeding and quality products thereof.		5	5	0
	PC10. demonstrate retail products to customers.		8	5	3
	PC11. assist a customer to choose a product based on his / her need.		7	2	5
	PC12. use stock control system to identify the types and quantities of stock to order.		7	2	5
	PC13. keep record of transactions.		7	2	5
			100	44	56
8. AGR/ N4818 Assistance in veterinary hospital / clinic management.	PC1. supervise cleaning of work environment consistent with any agreed specification and at the time agreed by those concerned, causing least disruption.		6	2	4
	PC2. supervise disposal of clinic waste as per standard procedure.		5	2	3
	PC3. ensure safety of clinic property and proper storage of chemicals (including hazardous materials), equipment.		5	2	3
	PC4. supervise front office and handle records /queries of clients and visitors.		5	2	3
	PC5. ensure safety and comfort of visitors.		5	2	3
	PC6. collect details of animal (with owner details) for which admission is required and arrange signing of consent form.		7	3	4
	PC7. ensure that the animal is safe, correctly identified and adequately restrained.		5	1	4
	PC8. select accommodation within hospital set up in a safe, secure and clean state that maintains animal health and welfare.		5	1	4
	PC9. follow directive of veterinarian regarding care requirements for in-patients.		8	2	6
	PC10. monitor patients such as in terms of faeces / urine output, flood / fluid intake, behavior, clinical parameters, pain / distress etc.		5	1	4
	PC11. replace dressing and bandages.		8	3	5
	PC12. undertake assisted feeding (where required)		5	2	3
	PC13. ensure five freedoms of animal welfare to admitted animals.		7	2	5
	PC14. update client record in practice software.		7	3	4
	PC15. generate scheduled communications e.g. for periodic vaccination etc. as per standard format.		7	4	3
	PC16. promote clinic / hospital services.		5	4	1
	PC17. Prepare and display / demonstrate client education poster / presentation etc	100	5	1	4

			100	37	63
9. AGR/ N4819 Conducting common laboratory test	PC1. collect normal samples for laboratory test as per standard procedure in the context of the test to be conducted or as directed by veterinarian.	100	18	8	10
	PC2. receive, record and mark samples sent to the laboratory for various test.		6	2	4
	PC3. pack and dispatch samples as per guideline.		5	2	3
	PC4. conduct common laboratory test for disease diagnosis, feed and livestock product safely / quality.		25	10	15
	PC5. assist veterinary scientist in advanced laboratory test including those required in semen straw production centers.		5	2	3
	PC6. supervise cleaning process as per standard guideline.		5	2	3
	PC7. maintain utensil / equipment as per manufacturers' guideline.		5	2	3
	PC8. follow safety measures in handling laboratory animals.		5	1	4
	PC9. follow standard operating procedure / ethical guideline as prescribed by organization.		3	3	0
	PC10. identify the area to be imaged correctly and undertake the appropriate pre-diagnostic imaging preparation.		8	3	5
	PC11. encourage the animal feel at ease in the clinical environment		4	1	3
	PC12. assist veterinarian in conducting the radiographic session.		4	1	3
	PC13. process the radiographic image correctly.		7	3	4
		100	40	60	
10. AGR/ N4811 Implementation of veterinary public health and other regulatory activities	PC1. identify 'suspects' for segregation from the healthy animals and further examination by veterinarian.	100	15	5	10
	PC2. assess the quality of milk / meat based on physical characteristics.		12	5	7
	PC3. report competent authority on suspected adulteration.		3	3	0
	PC4. Promote consumption of quality and safe livestock products.		5	2	3
	PC5. follow guideline and also promote the same for scientific handling of carcass and animal waste.		12	5	7
	PC6. promote available technology for by-product utilization or link farmers to enterprises handling by-products.		7	4	3
	PC7. estimate water requirement, assess water use and suggest better utilization of available water.		5	3	2
	PC8. promote measurement of methane emission in organized farms and suggest / implement ways to control the same.		5	3	2

12. 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	2	8
	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	0	10
	PC5. work with community and disaster management authorities to provide safe passage to animals / livestock.		25	3	22
	PC6. provide care / shelter to animal in distress		15	5	10
	PC7. undertake appropriate measures for carcass disposal.		10	2	8
	PC8. undertake culling and other measures suggested in case of disease related emergencies.		10	5	5
				100	27
13. AGR/ N4814 Assisting in livestock farm management	PC1. delegate / prepare daily job sheet for farm laborers (in case of organized farms)	100	20	8	12
	PC2. keep record and analyze financial transactions in a farm.		10	5	5
	PC3. explain farmers on ways to calculate cost of production / profit & loss.		10	7	3
	PC4. promote fodder cultivation.		10	3	7
	PC5. ensure intelligent procurement and quality control of feed.		10	5	5
	PC6. follow / explain common productivity related performance parameters in livestock farms.		10	5	5
	PC7. implement guideline on each of the element viz. segregation, cleaning, disinfection and disposal.		15	5	10
	PC8. guide farmer / farm-worker on measures to be taken in connection with health, animal movement, pollution and unusual death.		15	8	7
				100	46
14. AGR/ N4815 Assisting in veterinary care of wild animals (if required)	PC1. assist veterinarian in periodic health examination and analysis of birth and death records.	100	15	5	10
	PC2. supervise watering, feeding, cleaning of enclosures		10	5	5
	PC3. help in administration of medication.		10	3	7
	PC4. supervise provision of behavioral an environmental enrichment for captive animals.		7	3	4

	PC5. support team in following protocol on preventive care e.g. sample handling for parasitology and other routine diagnostic test, vaccination etc.		15	5	10
	PC6. follow bio-security guideline.		8	3	5
	PC7. support team in conducting necropsy of dead animals.		8	3	5
	PC8. support team in following protocol.		5	2	3
	PC9. use basic capture and restraint equipment for various categories of wildlife.		7	2	5
	PC10. follow personal safety guideline.		7	2	5
	PC11. provide first aid and prevent further injury.		8	4	4
			100	37	63
	Total		1400	560	840