VETERINARY SCIENCE

Revised 6/2015

Purpose and Standards

The Veterinary Science event seeks to effectively prepare the students for the expectations of the animal health care and services (Veterinary Hospitals/Clinics, Grooming Facilities, Pet Stores, Kennels/Boarding Facilities, and Feed Stores) workplace. Workers seeking careers in the animal health care field must develop a high degree of knowledge, skill and ability to solve difficult problems. This event blends the testing of skills and knowledge required for careers in the animal science career pathway. California Career Technical Education Model Curriculum Standards addressed by this event include:

Foundation Standards: Listening and Speaking 1.1, 2.2c, 2.2f, 1.8, Technology 4.2, 4.6, Health and Safety 6.2, 6.5, Ethics and Legal Responsibilities 8.3, Leadership and Teamwork 9.1, 9.2, 9.3.

Animal Science Pathways: D1.3, D1.4, D3.1, D3.2, D4.1, D5.1, D6.1-D6.5, D9.1, D9.4, D10.1, D10.2, D11.1-D11.3.

Contestants

The contest team will be made up of four members. Each member will compete in all events individually. The three high individuals will make up the team score.

To be eligible to compete at the state finals contest, a team must compete in a minimum of three of the following field days: CSU Chico, Arbuckle, UC Davis, Modesto JC, Reedley CC, CSU Fresno, Lassen CC, CSU Pomona/Mt. San Antonio CC, San Diego Section Field Day, or Dinuba. Only the top 24 teams, determined mathematically by a tabulations coordinator, will be eligible to compete at the state finals contest. The formula to calculate the 24 qualifying teams will be:

Weighted Score = (51 - Ranking) + (# of teams - Rank)/5

Classes

The contest will include:

	Class	Individual Points	Team Points
A.	Identification Tests		
	1. Equipment and Materials	150	450
	2. Parasites	50	150
	3. Breed identification	100	300
В.	Practicum #1	50	150
	Practicum #2	50	150
	Practicum #3	50	150
C.	General Knowledge Test (50 questions)	100	300
	TOTAL POINTS	550	1,650

Tie Breaker

- 1. Individual or team ties will be broken with highest General Knowledge test score.
- 2. If there still is a tie, it will be broken with highest Breed I.D. test score.
- 3. Individual or team ties will be broken with highest practicum score.

Sub-contest Awards

Sub-contest awards will be given for high teams and individuals in the following areas: Identification, Practicums, and Knowledge Test.

Rules

- I. Contestants in this contest will be divided into groups. Only one group will be allowed at one site at one time. Only one member of a team shall be allowed in a group.
- II. All equipment and practicum materials needed by the contestants will be available at the judging sites.
- III. All contestants must fill out the official score sheets and will be graded according to the points shown on the score card.
- IV. The contestants will be allowed 45 minutes at each test site to complete that section. Equipment/Materials, Parasites/Breed Identification, General Knowledge Test three rotations.
- V. Three Practicums will be allowed 90 minutes for completion.
- VI. Identification Test (Time: Equipment/Materials = 45 minutes, Breed/Parasites = 45 minutes)
 PowerPoint slides will be set at 15 seconds per picture, the PowerPoint will be ran through twice and the slides will be numbered.
 - A. Equipment and Materials can be picked at random from the approved list. Seventy-five items will be chosen for this contest. Two points for each correct answer.
 - B. Parasites are to be picked from the list provided. The specie and location on the animal will be given. Twenty-five items will be used in the contest. Two points for each correct answer.
 - C. Students will identify 50 animals from the approved list. Each correct answer will be worth two points.
- VII. Practicums (Time: 90 minutes)

Practicums will consist of three from the list of current year practicums: Students will go in order from one practicum to the other until all contestants are finished in each group. The list of practicums will come from the list provided by the National FFA contest for Veterinary Science. The National Rubric will be used. The score will be doubled to make each practicum worth 50 points. There will be a three minute maximum time limit for each of the individual practicums.

Practicum List Examples:

2017-2018 Practicum

Carrying a Cat

Restraint of the Cat for the femoral Venipuncture

Removing a dog from a floor level cage or kennel

Restraint of the dog in Sternal Recumbency

Restraint of a rabbit

Haltering cattle

2017-2018 Practicum (continued)

Filling a syringe

Tying a bowline knot

Administrating Aural medication

Bandage removal

Tying a reefer knot

2018-2019 Practicum

Using a Cat Bag

Restraint of the cat for Jugular Venipuncture

Use a microscope

Open a gown and gloves

Applying a gauze dog muzzle

Restraint of a small dog in lateral recumbency

Haltering a Horse

Tying a half hitch

Administering Ophthalmic medication

Fecal flotation with fecalzer

Cat Stretch- restraint of the cat lateral recumbency

2015-2016 Practicum

Removing a cat from a cage

Applying a cat muzzle

Restraint of the dog for Venipucture of Lateral Saphenous vein

Tying a double half hitch knot

Tying a square Knot

Administrating topical wound treatment

Administrating an Intramuscular injection

Prepare a Gram-Stained slide

Opening a surgery pack

Prescription filling

Administering topical parasiticide

2016-2017 Practicum

Placing a tail tie

Bandage Application

Building an temporary rope halter for a cow

Restraint of a dog for Jugular venipuncture

Restraint of a dog for Cephalic Venipuncture

Applying a commercial dog muzzle

Surgical Preparation

Removal of sutures

Administering a subcutaneous injection

Preparing a surgical pack for sterilization

Collect a sample of dermatophyte culture and Inoculate Dermatophyte culture

Restraint of the cat for Cephalic IV Catheter placement

VIII. General Knowledge Test (Time: 45 minutes)

A. The written exam will consist of 50 multiple choice questions from a set of approved texts, of no more than five, that will be selected by a committee made up of the top five coaches at State Finals of the revision year to be decided by the end of CATA Summer Conference.

Veterinary Assisting: Fundamental and Applications. Vanhorn, Clark. ISBN:978-1-4354-5387-6

- B. Test will be generated in scantron form including multiple choice, true/false and/or matching.
- C. The test will be 50 questions in length with each question being worth 2 points each.
- D. Students are allowed to have basic (non-programming) calculators for the test to the General Knowledge Test section.

Equipment and Materials Identification List

Ambubag Ear tag (metal) pliers

Anesthetic machines Elastrator

Animal clippers Elizabethian collar Autoclave Emasculators Autoclave tape indicator Endotracheal tubes

Backhaus towel clamps

Balling gun

Bands (castration or docking)

Bandaging material- Elasticon

Bandaging material- roll gauze

Bandaging material- vet wrap

Betadine

Brush - Body (soft bristle)

Fecal loop

Fecal loop

Fetal extractor

Fingertip toothbrush

Forceps - Alligator

Forceps- Babcock tissue

Forceps- Brown-Adson to

Brush - Body (soft bristle) Forceps- Brown-Adson thumb

Brush - Dandy (stiff bristle) Forceps- Crile

Brush - Slicker Forceps- Halstead mosquito hemostatic

Brush - Pin Forceps- Kelly

Bulb syringe Forceps - Rat tooth thumb
Cat bag Gag mouth speculum (small)
Carmalt Gag mouth speculum (large)

Catch pole (dog snare) Gavage needle

Catheter - IV Gravity feeder / J tube

Halter Catheter - butterfly Catheter - urine Head chute Centrifuge Hog snare Chain twitch Hoof knife Chemical indicator strips Hoof nippers Clipper blades Hoof pick Clipper comb Hoof rasp Surgical drapes Hoof trimmers Cold sterile tray Humane twitch

Comb - Curry Identification tag applicator

Comb - Flea IV fluids

Comb - Scotch

Cover slips

Dehorner - Barnes

Dehorner - electric

Lad shank

IV administration

Laryngoscopes

Lead rope

Lead shank

Dehorner - scoop or tube Needle holder - Mayo-Hegar
Dental floats Needle holder - Olsen-Hegar

Dental retractor

Dental scaler

Disposable hypodermic needles

Drench gun

Ear notcher

Microscope slides

Muzzle - basket

Muzzle - commercial

Nail clippers - guillotine

Nail clippers - plier

Ear tags Obstetrical chain and handle

Equipment and Materials Identification List - continued

Ophthalmoscope Staple remover Otoscope Steel lift table Paste gun Stethoscope Pig tooth nippers Surgical cap Pill counting tray Surgical gloves Radiology personal protective equipment Surgical gown Rumen magnet Surgical masks Scalpel blade Surgical tray Suture materials Scalpel handle Scissors – Bandage Suture needle

Scissors – Lister bandage Suture wire cutting scissors

Scissors – Littauer suture removal Syringe - leur lock Scissors – Mayo dissecting Syringe - slip tip

Scissors – Metzenbaum dissecting Syringe - automatic, multi-dose

Shedding blade Tattooing instruments - small & large

Silver nitrate sticks

Small animal oxygen cage

Snook ovariohysterectomy hook

Tourniquet

Trocar & cannula

Weight tape

Squeeze chute

Parasite Identification List

Blowfly (Family *Calliphoridae*)

Blowfly Maggot (Family Calliphoridae)

Cat Warble (Genus Cuterebra)

Cattle Grub (Genus Hypoderma)

Coccidia (Genus Isospora or Eimeria)

Demodectic Mite (Genus Demodex)

Ear Mite (Family Ascaridae; Genus Otodectes)

Fleas* (Genus Ctenocephalides)

Flea Larva (Genus Ctenocephalides)

Flea Tapeworm (Genus Dipylidium)

Flea Tapeworm Egg (Genus Dipylidium)

Flea Tapeworm Segment (Genus Dipylidium)

Giardia (Genus Giardia)

Hard Tick (Family Ixodidae; Genus Amblyomma or Dermacentor)

Heartworm Adult* (Genus Dirofilaria)

Heartworm Microfilaria* (Genus Dirofilaria)

Hookworm Adult* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus

Hookworm Egg* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus)

Horse Bots* (Genus Gasterophilus)

Horse Strongyles* (Family Strongylidae; Genus Strongylus)

Lice - Biting (Order Mallophaga; Genus Bovicola or Trichodectes)

Lice - Sucking (Order Anoplura; Genus Linognathus or Hematopinus)

Liver Fluke (Class Trematoda; Genus Fasciola, Fascioloides or Dicrocoelium)

Lungworm (Family Metastrongylidae; Genus Metastrongylus, Dictyocaulus or

Aelurostrongylus)

Mosquito Adult (Family Culicidae; Genus Anopheles, Culex or Aedes)

Mosquito Larva (Family Culicidae; Genus Anopheles, Culex or Aedes)

Pinworm (Genus Oxyuris)

Roundworm Adult* (Family Ascarididae or Toxocaridae; Genus Toxocara, Toxascaris,

Ascaris, Parascaris or Neoascaris)

Roundworm Egg* (Family Ascarididae or Toxocaridae; Genus Toxocara, Toxascaris, Ascaris,

Parascaris or Neoascaris)

Sarcoptic Mite (Family Ascaridae; Genus Sarcoptes or Notoedres)

Taenia Tapeworm* (Family Taeniidae; Genus Taenia)

Taenia Tapeworm Egg* (Family Taeniidae; Genus Taenia)

Taenia Tapeworm Segment* (Family Taeniidae; Genus Taenia)

Whipworm* (Genus Trichuris)

Whipworm Egg* (Genus Trichuris)

*Asterisk indicates which parasite life cycles could have questions.

Breed Identification List

Dogs

Sporting Group

Brittany Cocker Spaniel **English Setter**

English Springer Spaniel

German Shorthaired Pointer

Golden Retriever Irish Setter

Labrador Retriever

Weimaraner

Non-Sporting Group

Bichon Frise Boston Terrier

Bulldog

Chinese Shar-Pei **Chow Chow** Dalmatian Lhasa Apso Poodle

Terrier Group

Bull Terrier Cairn Terrier

Miniature Schnauzer Parson Russell Terrier **Scottish Terrier**

Smooth Fox Terrier West Highland White Terrier

Wire Fox Terrier

Herding Group

Australian Cattle Dog Australian Shepherd

Border Collie

Cardigan Welsh Corgi

Collie

German Shepherd Dog Old English Sheepdog Pembroke Welsh Corgi

Shetland Sheepdog

Working Group

Akita

Alaskan Malamute Bernese Mountain Dog

Boxer

Bullmastiff

Doberman Pinscher Giant Schnauzer Great Dane **Great Pyrenees**

Mastiff

Newfoundland

Portuguese Water Dog

Rottweiler Saint Bernard Samoyed Siberian Husky

Standard Schnauzer

Toy Group

Cavalier King Charles Spaniel

Chihuahua

Italian Greyhound

Maltese

Miniature Pinscher

Papillon Pekingese Pomeranian Poodle

Pug

Shih Tzu Silky Terrier Toy Fox Terrier Yorkshire Terrier

Hound Group

Afghan Hound American Foxhound

Basenii **Basset Hound**

Beagle

Black and Tan Coonhound

Bloodhound Dachshund

English Foxhound

Greyhound Whippet

Small Mammals

Birds Cockatiel Chinchilla Degus Cockatoos Ferret Love Birds Gerbils Parakeet

Guinea Pig African Gray Parrot

Hamster Canary Macaw Hedgehog Sugar Glider Mynah

Rainbow Lorikeet Society Finch Sun Conure

Reptiles

Chameleon Gecko Iguana

Bearded Dragon

Snake Turtle Frog Toad

Zebra Finch

Breed Identification List - continued

Cats Other **Poultry** Abyssinian Chicken-Cornish Potbellied Pig

American Shorthair Chicken-Leghorns

Burmese Chicken- Rhode Island Red Horse Cornish Rex Chicken-Plymouth Rock Appaloosa Devon Rex Duck Arabian Exotic Geese Belgian Maine Coon Quail Clydesdale

Haflinger Manx Turkey Miniature Persian Ragdoll **Dairy Cattle** Morgan Russian Blue Ayrshire Paint

Siamese **Brown Swiss** Paso Fino Guernsey Percheron Sphynx Turkish Angora Holstein **Quarter Horse**

Jersey Saddlebred

Rabbits

Standardbred (w/cart) American Fuzzy Lop Tennessee Walking Horse **Beef Cattle** Thoroughbred Angora Angus

Californian Brahman Donkey Dutch Charolais Mule

Dwarf Hotot Hereford **English Spot** Simmental Goat

Flemish Giant Shorthorn Alpine Jersey Wooly Nubian Holland Lop **Swine** Angora

Netherland Dwarf American Landrace Boer New Zealand Berkshire LaMancha Polish **Chester White** Oberhasli

Mini-Rex Duroc **Pygmy** Satin Hampshire Saanen Yorkshire

Dairy Cattle

Toggenburg

Ayrshire (1200-1400 lbs) Sheep

Brown Swiss Cheviot

Suffolk

Guernsey Columbia Holstein (Approx. 1500 lbs) Dorset Jersey Hampshire

Jacob Merino Montendale Rambouillet Southdown

Rubrics

Signature

Official Rubrics for each practicum can be found at the National FFA website: https://www.ffa.org/Programs/Awards/CDE/Pages/Veterinary-Science.aspx

EXAMPLE RUBRIC

Veterinary Science Handling and Restraining Practicum

Carrying a Cat

Participant Name:	State:	

Participant must talk through practicum steps with judge.

Criteria	Points	Points
	Possible	Earned
1. The student ensures that the cat is calm and happy.	6	
2. The student places one hand on the front of the cat's body to control the head and front limbs.	7	
3. The student places his/her other hand under the abdomen and rump to control the rear limbs.	6	
4. The student pulls the cat close to their body for support.	6	
TOTAL POINTS	25	
Total Points x 2 = Final Score	50	
	Judge's	

Date