Revised 6/2017

#### **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, Dinuba, Clovis, or Animal Care Clinic Contest. 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)/2

Weighted score will be based on number of teams that complete in any portion of a contest. Classes

The contest will include:

	Class	Individual Points	Team Points
I	Identification Tests		
	1. Equipment and Materials	150	450
	2. Parasites	50	150
;	3. Breed identification	100	300
I	Practicum #1	50	150
	Practicum #2	50	150

Practicum #3	50	150
General Knowledge Test (50 questions)	100	300
TOTAL POINTS	550	1,650

#### Tie Breaker

- 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. If there still is a tie, 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

Administrating Aural medication

Bandage removal

Carrying a Cat

Filling a syringe

Haltering cattle

Removing a dog from a floor level cage or kennel

Restraint of the Cat for the femoral Venipuncture

Restraint of the dog in Sternal Recumbency

Restraint of a rabbit

Tying a bowline knot

Tying a reefer knot

## 2018-2019 Practicum

Administering Ophthalmic medication

Applying a gauze dog muzzle

Cat Stretch- restraint of the cat lateral recumbency

Fecal flotation with fecalzer

Haltering a Horse

Open a gown and gloves

Restraint of a small dog in lateral recumbency

Restraint of the cat for Jugular Venipuncture

Tying a half hitch

Use a microscope

Using a Cat Bag

## 2019-2020 Practicum

Administrating an Intramuscular injection

Administering topical parasiticide

Administrating topical wound treatment

Applying a cat muzzle

Opening a surgery pack

Prepare a Gram-Stained slide

Prescription filling

Removing a cat from a cage

Restraint of the dog for Venipucture of Lateral Saphenous vein

Tying a double half hitch knot

Tying a square Knot

#### 2020-2021 Practicum

Administering a subcutaneous injection

Applying a commercial dog muzzle

Bandage Application

Building a temporary rope halter for a cow

Collect a sample of dermatophyte culture and Inoculate Dermatophyte culture

Placing a tail tie
Preparing a surgical pack for sterilization
Removal of sutures
Restraint of the cat for Cephalic IV Catheter placement
Restraint of a dog for Cephalic Venipuncture
Restraint of a dog for Jugular Venipuncture
Surgical Preparation

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 Fecal loop

Balling gun Fecalyzers

Bands (castration or docking) Fetal extractor

Bandaging material- Elasticon Fingertip toothbrush

Bandaging material—roll gauze Forceps - Alligator

Bandaging material—vet wrap Forceps- Allis tissue

Betadine Forceps- Babcock tissue

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

Catheter - butterfly Halter

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 IV administration

Cover slips Laryngoscopes

Dehorner - Barnes Lead rope

Dehorner - electric Lead shank

Dehorner - scoop or tube Needle holder - Mayo-Hegar

Dental floats Needle holder – Olsen-Hegar

Dental retractor Microscope slides

Dental scaler Muzzle - basket

Disposable hypodermic needles Muzzle – commercial

Drench gun Nail clippers - guillotine

Ear notcher 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

Scalpel handle Suture materials

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 Tourniquet

Small animal oxygen cage Trocar & cannula

Snook ovariohysterectomy hook 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

<b>Sporting Group</b>	Herding Group	Toy Group
Brittany	Australian Cattle Dog	Cavalier King Charles Spaniel
Cocker Spaniel	Australian Shepherd	Chihuahua
English Setter	Border Collie	Italian Greyhound
English Springer Spaniel	Cardigan Welsh Corgi	Maltese
German Shorthaired Pointer	Collie	Miniature Pinscher
Golden Retriever	German Shepherd Dog	Papillon
Irish Setter	Old English Sheepdog	Pekingese
Labrador Retriever	Pembroke Welsh Corgi	Pomeranian
Weimaraner	Shetland Sheepdog	Poodle
		Pug
Non-Sporting Group	Working Group	Shih Tzu
Bichon Frise	Akita	Silky Terrier
Boston Terrier	Alaskan Malamute	Toy Fox Terrier

Bulldog	Bernese Mountain Dog	Yorkshire Terrier

Chow Chow

Dalmatian	Doberman Pinscher	Afghan Hound

Bullmastiff

Lhasa Apso Giant Schnauzer American Foxhound

Poodle Great Dane Basenji

Great Pyrenees Basset Hound

**Hound Group** 

**Terrier Group** Mastiff Beagle

Bull Terrier Newfoundland Black and Tan Coonhound

Cairn Terrier Portuguese Water Dog Bloodhound

Miniature Schnauzer Rottweiler Dachshund

Parson Russell Terrier Saint Bernard English Foxhound

Scottish Terrier Samoyed Greyhound

Smooth Fox Terrier Siberian Husky Whippet

West Highland White

Terrier

Standard Schnauzer

Wire Fox Terrier

Small Mammals	Birds	Reptiles
Chinchilla	Cockatiel	Chameleon
Degus	Cockatoos	Gecko
Ferret	Love Birds	Iguana
Gerbils	Parakeet	Bearded Dragon
Guinea Pig	African Gray Parrot	Snake

Hamster	Canary	Turtle
Hedgehog	Macaw	Frog
Sugar Glider	Mynah	Toad
	Rainbow Lorikeet	
	Society Finch	
	Sun Conure Zebra Finch	

## **Breed Identification List - continued**

Cats	Poultry	Other
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
Manx	Turkey	Haflinger
Persian		Miniature
Ragdoll	Dairy Cattle	Morgan
Russian Blue	Ayrshire	Paint
Siamese	Brown Swiss	Paso Fino
Sphynx	Guernsey	Percheron
Turkish Angora	Holstein	Quarter Horse
	Jersey	Saddlebred

Rabbits Standardbred (w/cart)

American Fuzzy Lop Beef Cattle Tennessee Walking Horse

Angora Angus Thoroughbred

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 Toggenburg

**Dairy Cattle** 

Ayrshire (1200-1400 lbs)

Brown Swiss Cheviot

Guernsey Columbia

Holstein (Approx. 1500

lbs)

Dorset

Jersey Hampshire

Jacob

Merino
Montendale
Rambouillet
Southdown
Suffolk

## Rubrics

Official Rubrics for each practicum can be found at the National FFA website: https://www.ffa.org/SiteCollectionDocuments/cde\_vetscience.pdf

## **EXAMPLE RUBRIC**

# Veterinary Science Handling and Restraining Practicum

## Carrying a Cat

Participant Name:	State:	

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points 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 Signature		Date