



Veterinary Science

Purpose

The purpose of the veterinary science career development event is to promote college and career readiness by providing students with opportunities to develop technical knowledge and demonstrate practical skills in the field of veterinary science.

Objectives

Participants will demonstrate professional ethics, decision-making, business competency, communication and problem-solving skills.

Participants will demonstrate technical competency with small and large animals in the areas of

- Anatomy and physiology.
- Clinical procedures.
- Identification.
- Health and safety.
- Medical terminology.
- Veterinary math applications.

Event Rules

Teams will consist of four members with all four members' scores counting toward total team score.

DRESS CODE:

FFA Official Dress is NOT required for this event.

All participants must wear either scrubs (solid-color tops and bottoms) or a polo with slacks for the practical application of the event. All participants must wear closed-toe, closed-heel and flat shoes (no clogs, sandals or flip-flops).

TOOLS AND EQUIPMENT

Equipment provided by students:

- Pencils
- Non-programmable Calculators
- Clean Clipboards

Equipment provided by Tennessee FFA

- Specific tools, Scantrons needed to complete practicums.

Any participant in possession of an electronic device in the event area is subject to disqualification.

Event Format

INDIVIDUAL ACTIVITIES (300 POINTS)

WRITTEN EXAM (100 POINTS)

The objective exam is designed to determine team members' broad understanding of the veterinary science field. The written exam will consist of 50 questions. Forty minutes will be given for the exam. All test questions will come from the previous five years of National FFA Veterinary Science Written Exams on FFA.org. A test bank of the previous five years exams will be maintained and updated annually by FFA staff on the downloads tab on tnffa.org.

Topics for the exam may include the following:

- Anatomy/physiology
- Behavior
- Disease (causes and sources, signs and clinical signs)
- Facility management
- Genetics
- Husbandry
- Medical records
- Medical terminology
- Nutrition
- Patient management
- Practice management
- Regulations (OSHA: Federal Occupational Safety and Health Administration; GHS: Globally Harmonized System for Hazard Communication; SDS: Safety Data Sheets)

MATH APPLICATIONS EXAM (100 POINTS)

The number of practicum questions will vary based on the type of activity that is assigned. Participants will have 30 minutes to complete the entire math application practicum. Questions may include conversions, dose calculations, dilutions, cost calculations and invoices. Test questions will be formulated using the last five years National FFA veterinary science math applications exam. However, they will be similar to the questions rather than a test bank as is done with the written exam.

IDENTIFICATION (100 POINTS TOTAL)

Participants will identify equipment, parasites and breeds/species for a total of 100 points (two points per item). Forty minutes will be given for this activity. Identification lists are located at the end of this handbook.

- [*Equipment \(50 points\)*](#)
Participants will identify pieces of equipment (actual equipment and photos). They will also need to have general knowledge about the use for each item.
- [*Parasites/Microscopic \(30 points\)*](#)
Participants will identify parasites (specimen and photos) and explain the life cycles of selected parasites. Participants will identify microscopic organisms.
- [*Breeds \(20 points\)*](#)
Participants will identify breeds of small and large animals (photos).

After all individual activities are scored, only the top ten teams will participate in the individual practicums activity. All other teams will be released.

INDIVIDUAL PRACTICUMS (320 POINTS)

CLINICAL PROCEDURE PRACTICUM (200 POINTS)

Participants will be given two clinical procedure activities to complete (100 points each). Fifteen to 30 minutes will be allotted for this section depending on the activities selected each year. Participants are expected to talk through the clinical procedure steps to a judge as they are being scored. Judges may ask participants for clarification on steps performed. All clinical procedure scorecards are linked or may be found at the end of this handbook. Only two procedures will be chosen from even/odd years rotation. Students will not know which practicum it is until the 2nd portion of the event.

- [Administering Aural Medication \(Odd Years\)](#)
- [Administering Ophthalmic Medication \(Even Years\)](#)
- [Administering an Intramuscular Injection \(Odd Years\)](#)
- [Filling a Syringe for Injection \(Even Years\)](#)
- [Fecal Flotation with Fecalizer \(Odd Years\)](#)
- [Prescription Filling \(Even Years\)](#)
- [Removal of Sutures \(Odd Years\)](#)

HANDLING AND RESTRAINING PRACTICUM (120 POINTS)

Participants will be given two handling/restraint activities to complete (60 points each). Fifteen to 30 minutes will be allotted for this section depending on the activities selected each year. Participants are expected to talk through the handling and restraining steps to a judge as they are being scored. Judges may ask participants for clarification on steps performed. All handling and restraining scorecards can be found at the end of this handbook. Only two procedures will be chosen from even/odd years rotation. Students will not know which practicum it is until the 2nd portion of the event.

- [Removing a Cat from a Cage and Placing in a Cat Bag \(Odd Years\)](#)
- [Applying a Cat Muzzle \(Even Years\)](#)
- [Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture \(Odd Years\)](#)
- [Restraint of the Cat for Jugular Venipuncture \(Even Years\)](#)
- [Applying Gauze Dog Muzzle \(Odd Years\)](#)
- [Applying Nylon Dog Muzzle \(Even Years\)](#)
- [Restraint of the Small Dog for Jugular Venipuncture \(Odd Years\)](#)
- [Restraint of the Dog for Cephalic Venipuncture \(Even Years\)](#)
- [Applying Elizabethan Collar \(Odd Years\)](#)

There will be no team presentation at the state level. The individual practicums are replacing the team portion. Only the top 10 teams will complete the individual practicums.

Scoring

Activities	Individual Points	Team Points
Written exam	100	400
Identification	100	400
Math application exam	100	400
Handling and restraining practicum	120	480
Clinical procedures practicum	200	800
TOTAL	620	2,480

TIEBREAKERS

Teams

Team tiebreakers will be settled in the following order:

1. Combined individual practicum total score.
2. Combined individual written exam total score.

Individuals

Individual tiebreakers will be settled in the following order:

1. Combined practicum score.
2. Written exam score.

References

This list of references is not intended to be all-inclusive.

Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. Make sure to use discretion when selecting website references by only using reputable, proven sites. The following list contains references that may prove helpful during event preparation. The most current edition of resources will be used.

Past CDE materials and other resources are available by logging in to [FFA.org](https://www.ffa.org).

WRITTEN EXAM

- Small Animal Care and Management. Warren. ISBN: 978-1-4180-4105-2
- McCurnin's Clinical Textbook for Vet Technicians, 8th edition. ISBN 978-1-4377-2690-0
- An Illustrated Guide to Veterinary Medical Terminology. Romich. ISBN: 978-1-4354-2012-0
- Official Guide: Maintaining and Cleaning Surgical Instruments. Stow.
- Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online, <https://www.agrilifebookstore.org/Veterinary-Science-Preparatory-Training-p/vm-001w.htm>
- Introduction to Veterinary Science. Lawhead, Baker. ISBN: 978-1-4283-1225-8
- <http://todaysveterinarypractice.navc.com/>
- Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6

CLINICAL PROCEDURES & HANDLING/RESTRAINING PRACTICUMS

- Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6
- McCurnin's Clinical Textbook for Vet Technicians, 8th edition. ISBN 978-1-4377-2690-0
- Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents. Crow, Walshaw, Boyle. ISBN: 978-0813813042
- Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online, <https://www.agrilifebookstore.org/Veterinary-Science-Preparatory-Training-p/vm-001w.htm>

IDENTIFICATION

- Veterinary Instruments and Equipment: A Pocket Guide. Sonsthagen. ISBN: 978-0323032032
- Surgical Instrument Flash Cards available in the Spectrum Veterinary Instruments e-Catalog: <https://www.sterisanimalhealth.com/spectrum-product-page/>
- American Kennel Club, <http://www.akc.org/index.cfm>
- Cat Fanciers' Association, <https://cfa.org/breeds/>
- American Rabbit Breeders Association, <http://www.arba.net/>

MATH PRACTICUM

- Medical Mathematics and Dosage Calculations for Veterinary Professionals. Bill, Robert. ISBN: 978-08138263
- National Vet Science Math Practicum Units of Measurement, common formulas and conversions for students to use as they may appear on the Math Practicum, [FFA.org](https://www.ffa.org)

Equipment and Materials Identification List

100. Ambubag
101. Anesthetic machines
102. Autoclave
103. Autoclave tape indicator
104. Backhaus towel clamps
105. Balling gun
106. Bandaging material — Elasticon
107. Bandaging material — roll gauze
108. Bandaging material — vet wrap
109. Bands (castration or docking)
110. Cat bag
111. Catch pole (dog snare)
112. Catheter — butterfly
113. Catheter — IV
114. Catheter — Tomcat urinary
115. Centrifuge
116. Chemical indicator strips
117. Cold sterile tray
118. Dehorner — Barnes
119. Dehorner — electric
120. Dental floats
121. Dental scaler
122. Drench gun — small ruminant
123. Ear notcher
124. Elastrator
125. Elizabethan collar
126. Emasculators
127. Endoscope
128. Endotracheal tubes
129. Fecal loop
130. Fecalyzers
131. Feeding tube for small animals
132. Fetal extractor — calf
133. Forceps — Alligator
134. Forceps — Allis tissue
135. Forceps — Babcock tissue
136. Forceps — Brown-Adson thumb
137. Forceps — Crile
138. Forceps — Kelly
139. Forceps — Halstead mosquito hemostatic
140. Forceps — Rat tooth thumb
141. Gravity feeder/J tube
142. Head gate
143. Hog snare
144. Hoof knife
145. Hoof rasp
146. IV administration set
147. Laparoscope
148. Laryngoscopes
149. Muzzle — basket
150. Muzzle — nylon
151. Needle holder — Mayo-Hegar
152. Needle holder — Olsen-Hegar
153. Obstetrical chain and handle
154. Ophthalmoscope
155. Otoscope
156. Pig tooth nippers
157. Radiology personal protective equipment
158. Rectal prolapse ring — swine
159. Rumen magnet
160. Scalpel blade
161. Scalpel handle
162. Scissors — Suture wire cutting
163. Scissors — Bandage
164. Scissors — Lister bandage
165. Scissors — Littauer suture removal
166. Scissors — Mayo dissecting
167. Scissors — Metzenbaum dissecting
168. Silver nitrate sticks
169. Small animal oxygen cage
170. Snook ovariohysterectomy hook
171. Speculum — large animal oral
172. Speculum — small animal oral
173. Speculum — vaginal
174. Squeeze chute
175. Staple remover
176. Stethoscope
177. Surgical drapes
178. Suture needle — cutting
179. Suture needle — taper
180. Syringe — automatic, multi-dose
181. Tattooing instruments — small and large
182. Tonometer
183. Tourniquet
184. Trocar and cannula
185. Twitch chain
186. Twitch handle

Parasite/Microscopic Identification List

200. Blowfly (Family *Calliphoridae*)
201. Calcium oxalate crystals
202. Cat Warble (Genus *Cuterebra*)
203. Cocci (bacteria)
204. Coccidia (Genus *Isospora* or *Eimeria*)
205. Demodectic Mite (Genus *Demodex*)
206. Ear Mite (Family *Psoroptidae*; Genus *Otodectes*)
207. Eosinophils
208. Epithelial cells (urine)
209. Flea Larva (Genus *Ctenocephalides*)
210. Flea Tapeworm Egg* (Genus *Dipylidium*)
211. Flea Tapeworm Segment* (Genus *Dipylidium*)
212. Flea Tapeworm* (Genus *Dipylidium*)
213. Fleas* (Genus *Ctenocephalides*)
214. Giardia* (Genus *Giardia*)
215. Heartworm Adult* (Genus *Dirofilaria*)
216. Heartworm Microfilaria* (Genus *Dirofilaria*)
217. Hookworm Adult* (Family *Ancylostomatidae*; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
218. Hookworm Egg* (Family *Ancylostomatidae*; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
219. Horse Bots* (Genus *Gasterophilus*)
220. Horse Strongyles* (Family *Strongylidae*; Genus *Strongylus*)
221. Lice — Biting (Order Mallophaga; Genus *Bovicola* or *Trichodectes*)
222. Lice — Sucking (Order Anoplura; Genus *Linognathus* or *Hematopinus*)
223. Liver Fluke (Class Trematoda; Genus *Fasciola*, *Fascioloides* or *Dicrocoelium*)
224. Mosquito Adult (Family *Culicidae*; Genus *Anopheles*, *Culex* or *Aedes*)
225. Mosquito Larva (Family *Culicidae*; Genus *Anopheles*, *Culex* or *Aedes*)
226. Neutrophils
227. Platelets
228. Red blood cell (erythrocyte)
229. Rod (bacteria)
230. Roundworm Adult* (Family *Ascarididae* or *Toxocaridae*; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris* or *Neoascaris*)
231. Roundworm Egg* (Family *Ascarididae* or *Toxocaridae*; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris* or *Neoascaris*)
232. Sarcoptic Mite (Family *Sarcoptidae*; Genus *Sarcoptes* or *Notoedres*)
233. Struvite crystals (triple magnesium phosphate)
234. Taenia Tapeworm Egg* (Family *Taeniidae*; Genus *Taenia*)
235. Taenia Tapeworm Segment* (Family *Taeniidae*; Genus *Taenia*)
236. Taenia Tapeworm* (Family *Taeniidae*; Genus *Taenia*)
237. Tick — American Dog (Family *Dermacentor*; Genus *variabilis*)
238. Tick — Black Legged Deer (Family *Ixodes*; Genus *scapularis*)
239. Tick — Brown Dog (Family *Rhipicephalus*; Genus *sanguineus*)
240. Tick — Lonestar (Family *Amblyomma*; Genus *americanum*)
241. Whipworm Egg* (Genus *Trichuris*)
242. Whipworm* (Genus *Trichuris*)
243. Yeast (cytology)

*Asterisk indicates which parasite life cycles could have questions.

Breed/Species Identification List

DOGS

Herding Group

- 300. Australian Cattle Dog
- 301. Australian Shepherd
- 302. Border Collie
- 303. Collie
- 304. German Shepherd Dog
- 305. Old English Sheepdog
- 306. Pembroke Welsh Corgi
- 307. Shetland Sheepdog

Hound Group

- 308. Afghan Hound
- 309. Basenji
- 310. Basset Hound
- 311. Beagle
- 312. Black and Tan Coonhound
- 313. Bloodhound
- 314. Dachshund
- 315. Greyhound
- 316. Rhodesian Ridgeback

Non-Sporting Group

- 317. Bichon Frise
- 318. Boston Terrier
- 319. Bulldog
- 320. Chinese Shar-Pei
- 321. Chow Chow
- 322. Dalmatian
- 323. Poodle

Sporting Group

- 324. Brittany Spaniel
- 325. Cocker Spaniel
- 326. English Setter
- 327. German Shorthaired Pointer
- 328. Golden Retriever
- 329. Irish Setter
- 330. Labrador Retriever
- 331. Weimaraner

Terrier Group

- 332. Bull Terrier
- 333. Cairn Terrier
- 334. Parson Russell Terrier
- 335. Scottish Terrier
- 336. West Highland White Terrier

Toy Group

- 337. Cavalier King Charles Spaniel
- 338. Chihuahua
- 339. Miniature Pinscher
- 340. Papillon
- 341. Pekingese
- 342. Pomeranian
- 343. Poodle
- 344. Pug
- 345. Shih Tzu
- 346. Yorkshire Terrier

Working Group

- 347. Bernese Mountain Dog
- 348. Boxer
- 349. Doberman Pinscher
- 350. Great Dane
- 351. Great Pyrenees
- 352. Mastiff
- 353. Newfoundland
- 354. Portuguese Water Dog
- 355. Rottweiler
- 356. Saint Bernard
- 357. Siberian Husky
- 358. Standard Schnauzer

CATS

- 359. Abyssinian
- 360. American Shorthair
- 361. Burmese
- 362. Maine Coon
- 363. Manx
- 364. Persian
- 365. Ragdoll
- 366. Russian Blue
- 367. Siamese
- 368. Sphynx

BIRDS

- 369. African Gray Parrot
- 370. Canary
- 371. Cockatiel
- 372. Cockatoos
- 373. Love Birds
- 374. Macaw
- 375. Parakeet
- 376. Sun Conure
- 377. Zebra Finch

REPTILES

- 378. Bearded Dragon
- 379. Chameleon
- 380. Gecko
- 381. Iguana

POULTRY

- 382. Chicken — Cornish
- 383. Chicken — Leghorns
- 384. Chicken — Plymouth Rock
- 385. Chicken — Rhode Island Red
- 386. Duck
- 387. Geese
- 388. Quail
- 389. Turkey

SMALL MAMMALS

- 390. Chinchilla
- 391. Ferret
- 392. Gerbils
- 393. Guinea Pig
- 394. Hamster
- 395. Hedgehog
- 396. Sugar Glider

RABBITS

- 397. Angora
- 398. Californian
- 399. Dutch
- 400. English Spot
- 401. Holland Lop
- 402. Mini-Rex
- 403. Netherland Dwarf
- 404. New Zealand

DAIRY CATTLE

- 405. Ayrshire
- 406. Brown Swiss
- 407. Guernsey
- 408. Holstein
- 409. Jersey

BEEF CATTLE

- 410. Angus
- 411. Brahman
- 412. Charolais
- 413. Hereford
- 414. Shorthorn
- 415. Simmental

HORSE

- 416. Appaloosa
- 417. Arabian
- 418. Belgian
- 419. Clydesdale
- 420. Morgan
- 421. Paint
- 422. Percheron
- 423. Quarter Horse
- 424. Saddlebred
- 425. Tennessee Walking Horse
- 426. Thoroughbred

GOAT

- 427. Alpine
- 428. Nubian
- 429. Angora
- 430. Boer
- 431. LaMancha
- 432. Saanen
- 433. Toggenburg

SHEEP

- 434. Columbia
- 435. Dorper
- 436. Dorset
- 437. Hampshire
- 438. Merino
- 439. Rambouillet
- 440. Southdown
- 441. Suffolk

SWINE

- 442. American Landrace
- 443. Berkshire
- 444. Chester White
- 445. Duroc
- 446. Hampshire
- 447. Yorkshir

Clinical Procedures Practicum

ADMINISTERING AURAL MEDICATION

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student successfully administered the proper amount of medication into the ear canal. <ul style="list-style-type: none"> • Ear pinna held upright • Correct amount of medication was administered without contamination 	20	
The student massages the base of the outside of the ear canal causing a swishing sound from the medication moving around in the ear canal.	15	
The student wipes any solution that may have leaked onto the outside of the ear flap or hair.	15	
TOTAL POINTS	50	

Clinical Procedures Practicum

ADMINISTERING OPHTHALMIC MEDICATION

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student wipes any discharge from the patient's eye using a gauze sponge or cotton ball.	8	
The student opens the end of the ophthalmic medicine	6	
The student uses the index finger and thumb to pull the upper and lower lids apart to open the eye. The student's thumb pulls the lower lid down and the index finger pulls the upper lid upward. The student's other finger may rest on the head of the animal.	12	
While resting the hand holding the medication on the head of the patient, the student applies the drops or ointment gently into the eye without touching the eye, counting each drop or applying the proper amount of ointment without contamination.	12	
The student releases the eyelids.	6	
The student allows the animal to blink to move the medication throughout the eye.	6	
TOTAL POINTS	50	

Clinical Procedures Practicum

ADMINISTERING AN INTRAMUSCULAR INJECTION

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student selected the proper site for administration.	10	
The student directs the needle through the skin and into the muscle.	10	
The student aspirates; if no blood is noted, injects.	10	
The student withdraws the needle and places in the sharps container.	10	
The student massages the area where the injection was given and praises the patient.	10	
TOTAL POINTS	50	

Clinical Procedures Practicum

FILLING A SYRINGE FOR INJECTION

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student determines the amount to be placed in the syringe.	6	
The student selects the proper-sized syringe.	8	
The student inserts the syringe into the top of the bottle.	6	
The student places the bottle upside down in one hand and holds securely.	6	
The student withdraws the proper volume.	6	
The student removes the syringe from the bottle.	6	
The student gently taps or snaps the edge of the syringe to remove any air bubbles or slightly expels the air by pushing the end of the plunger.	6	
The student places syringe in the sharps container.	6	
TOTAL POINTS	50	

Clinical Procedures Practicum

FECAL FLOTATION WITH FECALYZER

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student selects about 1/4 teaspoon of feces and places it into a fecalyzer.	6	
The student adds enough flotation solution to fill the fecalyzer about half full.	6	
The student mixes the feces into solution until no large fecal particles remain.	6	
The student places insert into fecalyzer.	6	
The student fills the vial with more solution until there is a visible meniscus at the top.	6	
The student places a cover slip on top of the fecalyzer.	6	
The student allows the vial to sit undisturbed for 10 to 15 minutes.	6	
The student carefully removes the cover slip without tilting it and places it on a microscope slide.	8	
TOTAL POINTS	50	

Clinical Procedures Practicum

PRESCRIPTION FILLING

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student reads and verbally interprets prescription.	10	
The student selects the correct drug and concentration.	20	
The student places the pill counting tray on the pharmacy counter with the channel to the left and the open plate in front of him or her.	1	
The student pours the medication tablets or capsules onto the tray plate.	1	
The student opens the channel cover.	1	
The student uses a spatula or tongue depressor to push groups of tablets or capsules into the channel.	1	
When the student has counted the desired amount of medication, he or she closes the channel cover. The student tilts the tray to return the unused medicine into the stock bottle.	4	
The student lifts the tray to place the channel spout into the medicine vial and transfers medication.	4	
The student places the lid on the vial and sets it on the counter.	1	
The student appropriately fills out label with prescription information.	7	
TOTAL POINTS	50	

Clinical Procedures Practicum

REMOVAL OF SUTURES

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student clearly visualizes and inspects the incision site.	10	
If there are problems with the incision site, the student informs the veterinarian. If there are no problems, the student removes the sutures.	10	
The student chooses the correct tool to remove the sutures.	10	
The student places the curved blade underneath the suture for removal and removes the suture.	15	
The student does not cause unnecessary harm or discomfort to the patient.	5	
TOTAL POINTS	50	

Handling and Restraining Practicum

REMOVING A CAT FROM A CAGE AND PLACING IN CAT BAG

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student opens the cage door and calls the cat by name.	2	
The student scruffs the cat with one hand and lifts it up.	3	
The student cradles the cat's abdomen with their other hand and removes the cat from the cage.	2	
With the cat still scruffed, the student places the cat under one arm close to his or her body and closes the cage door with his or her free hand.	3	
The student carries the cat to the exam table while holding the cat close to his or her body.	3	
The student scruffs the cat and lifts it into the bag in one swift motion while supporting the hind end.	4	
The student wraps the Velcro strap around the cat's neck and immediately zips up the bag.	4	
The student uses the proper zippered opening to expose the front limb.	4	
To remove the cat, the student removes the Velcro strap first, then unzips the bag and removes the cat by scruffing and supports the hind end.	5	
TOTAL POINTS	30	

Handling and Restraining Practicum

APPLYING A CAT MUZZLE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student opens the cage door and calls the cat by name.	2	
The student scruffs the cat with one hand and lifts it up.	2	
The student cradles the cat's abdomen with their other hand and removes the cat from the cage.	2	
With the cat still scruffed, the student places the cat under one arm close to his or her body and closes the cage door with his or her free hand.	2	
The student places cat on table.	2	
The student selects a muzzle of appropriate size for the cat.	5	
The student places the cat in sitting or sternal position on exam table.	2	
The student positions the muzzle properly in his or her hands.	3	
The student approaches the cat from behind with the muzzle in both hands while another person restrains cat.	3	
The student brings the muzzle up to the cat's face in one swift motion.	4	
The student secures the muzzle.	3	
TOTAL POINTS	30	

Handling and Restraining Practicum

RESTRAINT OF THE CAT IN LATERAL RECUMBENCY FOR FEMORAL VENIPUNCTURE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student places the cat on an examination table.	3	
The student scruffs the cat with one hand and lifts it off the table enough to grasp both hind legs with his or her other hand and reaches under cat to grasp both hind limbs.	8	
The student lays the cat on its side with the hind legs stretched rearward.	7	
The student tucks top rear leg and tail while occluding with side of hand.	8	
The student speaks to the patient in a calm and affectionate manner during the procedure.	4	
TOTAL POINTS	30	

Handling and Restraining Practicum

RESTRAINT OF THE CAT FOR JUGULAR VENIPUNCTURE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student places the cat in sternal recumbency with its chest close to the edge of the table.	6	
The student controls and lifts the head up by placing thumb and forefingers over top of head, fingers firm on zygomatic arches (below eyes).	7	
The student's other hand grasps the front legs and extends them down off the edge of the table.	7	
The student uses arm and elbow to restrain the cat's body close to the student's body.	6	
The student speaks to the patient in a calm and affectionate manner during the procedure.	4	
TOTAL POINTS	30	

Handling and Restraining Practicum

APPLYING A GAUZE DOG MUZZLE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student selects proper type of material and length.	4	
The student places the dog in sitting or sternal position on exam table or floor.	2	
The student makes a loop in the gauze and approaches the dog from behind.	6	
The student places the loop on the dog's face with the tie on top.	6	
The student quickly tightens the loop and then crosses the ends under the dog's face.	6	
The student brings the ends back behind the dog's head under the ears and ties in a quick-release bow.	6	
TOTAL POINTS	30	

Handling and Restraining Practicum

APPLYING A NYLON DOG MUZZLE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student selects appropriate muzzle.	4	
The student places the dog in sitting or sternal position on exam table or floor.	2	
The student comes from behind the dog's head with the muzzle in one hand in the correct position.	7	
The student brings the muzzle up to the dog's face and slips it on while grasping the strap with the other hand.	6	
The student secures the muzzle.	5	
The student checks for proper fit (one finger inserted under the strap).	6	
TOTAL POINTS	30	

Handling and Restraining Practicum

RESTRAINT OF THE SMALL DOG FOR JUGULAR VENIPUNCTURE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student puts a noose leash on the dog and has the dog sit.	3	
The student places one arm around the dog's neck and places the other arm around the dog's back to grasp the forelimbs.	6	
The student pushes the dog's back with his or her body to encourage the dog to lie down.	6	
The student holds the head up under the jaw, away from the chest (can be achieved by cupping hand underneath the muzzle and by pushing the head upward).	8	
The student's other hand grasps the front legs and extends them over the end of the table.	7	
TOTAL POINTS	30	

Handling and Restraining Practicum

RESTRAINT OF THE DOG FOR CEPHALIC VENIPUNCTURE

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student places a noose leash on the dog.	2	
The student restrains the dog in sternal recumbency.	5	
The student stands on the dog's right side, wrapping his or her right arm around the dog's neck.	5	
The student holds the dog's left forelimb with elbow in the palm of his or her hand and extend the limb forward toward the person performing the procedure.	6	
With the elbow of the dog in his or her palm, the student rotates his or her thumb up so it is on top of the limb at the bend of the elbow.	6	
The student occludes the vessel with the thumb and rotates the thumb laterally.	6	
TOTAL POINTS	30	

Handling and Restraining Practicum

APPLYING ELIZABETHAN COLLAR

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
The student chooses the correct size of E-collar for the patient.	6	
The student correctly prepares the E-collar for placement.	6	
The student correctly places the E-collar on the animal.	6	
Placement is adequately secured so the animal cannot remove the E-collar.	6	
The E-collar is secured such that the animal's breathing is not restricted.	6	
TOTAL POINTS	30	