



# Islands FFA Junior Veterinary Science Career Development Event

An Invitational CDE hosted by the Islands FFA Chapter in cooperation with Fort Valley State University Veterinary Science and Public Health Academic Department.

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## I. OVERVIEW

The Veterinary Science CDE will test students' knowledge and skill in various aspects of the Veterinary Science industry. The team event includes identification of equipment and animal breeds, as well as a handling and restraining practicum, and a written exam involving knowledge of the veterinary science field.

*\*This CDE has been adapted from the National FFA Veterinary Science Career Development Event, which can be found at [www.ffa.org](http://www.ffa.org).*

## II. PURPOSE

The purpose of the Veterinary Science Career Development Event is to promote college and career readiness by providing opportunities to develop technical knowledge and demonstrate practical skills in the field of veterinary science.

Objectives:

- A. Participants will demonstrate professional ethics, decision-making, communication and problem-solving skills.
- B. Participants will demonstrate technical competency with small and large animals in the areas of:
  1. Anatomy and physiology
  2. Clinical procedures
  3. Identification
  4. Health and safety
  5. Medical terminology

### **III. ELIGIBILITY**

This event is open to students in grades 6-9 who are agricultural education students, and are paid members of a chartered FFA chapter. Each member of the team must be a member of the chapter registering them, and each student's name must appear on the chapter's FFA roster at least 10 days prior to competition above the chapter level.

### **IV. SPECIAL NEEDS REQUEST**

To report any special needs or request special services for a student, it is the responsibility of the FFA Advisor to provide a detailed and specific request and explanation in writing. Requests should include written documentation from the school system verifying the IEP and need being requested. Written requests must be submitted to Myria Shipman upon registering for the CDE/event (minimum 2 weeks prior to the date of competition).

### **V. RULES**

- 1) All general FFA CDE rules apply to this contest event.
- 2) The activity is limited to one junior team per chapter. Each team will consist of four members with all four members' scores counting toward total team score. If there is space available, schools may bring an additional team. Advisors will be notified via email after the initial registration deadline if space is available.
- 3) Dress Code: It is suggested, but not required, that participants wear scrubs. All participants must wear long pants and closed toe, closed heel and flat shoes (no clogs, sandals or flip-flops). No jewelry, with the exception of stud earrings, may be worn during the practicum section of the event. This includes rings, bracelets, hoop or dangling earrings, and exposed body piercing.
- 4) Under no circumstances will any participant be allowed to touch or handle equipment during the identification portion of the event.
- 5) Neither coaches nor teachers may enter the competition area until the event superintendent announces the end of the event and areas are open to be reviewed.
- 6) Any participant in possession of an electronic device in the event area is subject to disqualification.
- 7) Tools and Equipment:
  - a. Each participant will need to bring a clipboard and two pencils.
  - b. Participants will be allowed to have scratch paper and a non-programmable calculator.
  - c. All other tools and equipment needed to complete practicums will be provided.
- 8) The Islands FFA Advisors and their appointees will be in charge of this event.
- 9) Score sheets will not be given out by judges prior to announcement of the winners. The decisions of the judges are final.

## VI. EVENT FORMAT

### 1. Written Exam: 50 points

The written exam is designed to determine team members' broad understanding of the veterinary science field. The written exam will consist of 25 multiple-choice questions. Thirty minutes will be given for the exam. Topics for the exam may include:

- Behavior
- Disease (causes and sources, signs and symptoms)
- Medical terminology
- Medical records
- Anatomy/physiology
- Regulations (OSHA, MSDS)
- Patient management
- Facility management
- Genetics
- Nutrition
- Husbandry

### 2. Identification: 50 points

Participants will identify 25 equipment items and breeds/species for a total of 50 points (2 points per item). Thirty minutes will be given for this activity. Identification lists are located at the end of this awards bulletin.

### 3. Handling and Restraining Practicum: 50 points total

Participants will be given 2 activities to complete (25 points each). Participants are expected to talk through the steps to a judge as they are being scored. Judges may speak and ask questions to the participant at the end of each activity, if time allows. All handling/restraining scorecards can be found at the end of this handbook.

## VII. Event Scoring

Event	Individual Points	Team Points
Written Exam (25 questions, 2 points per question)	50	200
Identification (25 items, 2 points per item)	50	200
Handling/Restraining Practicum (2 practicum activities, 25 points per activity)	50	200
Total Possible Points:	150	600

## VIII. TIE BREAKER

Team tiebreakers will be settled in the following order:

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

Individual tiebreakers will be settled in the following order:

1. Combined practicum score
2. Written exam score

## IX. AWARDS

Awards will be announced for the following:

1. The top individual for each event activity (Written Exam, Identification, Practicums).
2. The top two individuals overall
3. The top two teams overall

## X. REFERENCES

### Written Exam:

*Small Animal Care and Management*. Warren. ISBN: 978-1-4180-4105-2

*Introduction to Veterinary Science*. Lawhead, Baker. ISBN: 978-1-4283-1225-8

### Handling/Restraining Practicums:

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

*Restraint and Handling for Veterinary Technicians and Assistants*. Ballard, Rockett. ISBN: 978-1-4354-4358-6

### Identification:

*Veterinary Instruments and Equipment: A Pocket Guide*. Sonsthagen. ISBN: 978-0323032032

<http://loudoun.nvcc.edu/vetonline/vet121/instruments.htm>

<https://www.spectrumsurgical.com/product/10-0227/Surgical-Instrument-Flash-Cards.php>

American Kennel Club – <http://www.akc.org/index.cfm>

Cat Fancier's Association – <http://www.cfa.org/client/breeds.aspx>

## **Practicums:**

Participants will be given two handling/restraint activities to complete. Activities will be chosen from the list below. Following the list are example student directions. Scorecards for each practicum are found following student directions.

### **Handling and Restraining Practicums:**

1. Removing a Cat from a Cage
2. Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture
3. Applying a Cat Muzzle
4. Removing a Dog from a Floor Level Cage or Kennel
5. Restraint of the Dog in Sternal Recumbency
6. Applying a Nylon Dog Muzzle
7. Tying a Reefer's Knot
8. Tying a Square Knot

### **Sample Student Directions:**

#### **Practicum #1: Applying a Cat Muzzle**

Mrs. Purrdy has brought in her cat "Tiger" for his annual vaccinations. "Tiger" lives up to his name and is very difficult to handle. The veterinarian has asked you to place a cat muzzle on Tiger. Please demonstrate how you would apply a cat muzzle and explain each step as it is demonstrated.

#### **Practicum #2: Tying a Reefer's Knot**

You are asked to tie a horse to the hitching post. Please demonstrate the proper procedure for tying a reefer's knot and explain each step as it is demonstrated.

Veterinary Science  
Handling and Restraining Practicum

**Removing a Cat from a Cage**

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student opens the cage door and calls the cat by name.	5	
2. The student scruffs the cat with one hand and lifts it up.	5	
3. The student cradles the cat's abdomen with other hand and removes the cat from the cage.	5	
4. With the cat still scruffed, the student places the cat under one arm close to his/her body and closes the cage door with free hand.	5	
5. The student carries the cat close to his/her body to its destination.	5	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

**Restraint of the Cat in Lateral Recumbency for Femoral  
Venipuncture**

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the cat on an examination table.	3	
2. The student scruffs the cat with one hand and lifts it off of the table enough to grasp both hind legs with his/her other hand or reach under cat to grasp both hind limbs.	7	
3. The student lays the cat on its side with the hind legs stretched rearward.	6	
4. The student tucks top rear leg and tail while occluding with side of hand.	7	
5. The student spoke to the patient in a calm and affectionate manner during the procedure.	2	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

**Applying a Cat Muzzle**

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects a muzzle of appropriate size for the cat.	4	
2. The student places the cat in sitting or sternal position on exam table or floor.	3	
3. The student positions the muzzle properly in his/her hands	3	
4. The student approaches the cat from behind with the muzzle in both hands while another person restrains the cat.	5	
5. The student brings the muzzle up to the cat's face in one swift motion.	5	
6. The student secures the muzzle.	5	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_



Veterinary Science  
Handling and Restraining Practicum

## Removing a Dog from a Floor Level Cage or Kennel

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places a leash in one hand with a large loop open and ready to place over the dog's head.	5	
2. While blocking the opening, the student opens the cage door enough to slip the hand holding the leash into cage.	5	
3. The student slips the leash over the neck of the dog and gently tightens the leash around the neck.	5	
4. The student opens the door and allows the dog to exit the cage.	5	
5. The student keeps the dog to his/her side while maintaining a slight tension on the leash.	5	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

## Restraint of the Dog in Sternal Recumbency

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student puts a noose leash on the dog.	5	
2. The student begins with the dog sitting.	5	
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.	5	
4. The student pushes the dog's back with his/her body to encourage the dog to lie down.	5	
5. The student positions the dog so that head can be examined.	5	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

**Applying a Nylon Dog Muzzle**

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects the appropriate muzzle.	3	
2. The student places the dog in sitting or sternal position on exam table or floor.	4	
3. The student comes from behind the dog's head with the muzzle in hand.	4	
4. The student brings the muzzle up to the dog's face and slips it on while grasping the strap with the other hand.	5	
5. The student secures the muzzle	4	
6. The student checks for proper fit (one finger inserted under the strap).	5	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

## Tying a Reefer's Knot

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the rope over a pole or tie area.	6	
2. The student passes the short end over and under the long end.	7	
3. The student makes a fold or bight in the short end and passes it over and under the long end.	6	
4. The student pulls securely on the long end and loop of the short end.	6	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

Veterinary Science  
Handling and Restraining Practicum

## Tying a Square Knot

Participant: \_\_\_\_\_

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student takes one piece of rope and passes the right end over and under the left end.	6	
2. The student passes the "new" right end under and over the "new" left end; or the student passes the "new" left end over and under the "new" right end.	7	
3. The student pulls securely on both ends.	6	
4. The student unties the knot by pushing the opposite ends together.	6	
<b>TOTAL POINTS</b>	<b>25</b>	

Notes:

Judge's Signature: \_\_\_\_\_

## Identification Lists

### EQUIPMENT AND MATERIALS

1. Ambubag
2. Autoclave
3. Autoclave tape indicator
4. Backhaus towel clamps
5. Balling gun
6. Bandaging material-roll gauze
7. Bandaging material- vet wrap
8. Bands (castration or docking)
9. Cat bag
10. Catch pole (dog snare)
11. Centrifuge
12. Chemical indicator strips
13. Dehorner – Barnes
14. Dehorner – electric
15. Dental floats
16. Dental scaler
17. Ear notcher
18. Elastrator
19. Elizabethan collar
20. Emasculators
21. Feeding tube for small animals
22. Fetal extractor – calf
23. Forceps – Alligator
24. Forceps – Allis tissue
25. Forceps – Brown-Adson thumb
26. Forceps – Rat tooth thumb
27. Hoof knife
28. Hoof rasp
29. IV administration set
30. Laryngoscope
31. Muzzle – basket
32. Muzzle – nylon
33. Obstetrical chain & handle
34. Ophthalmoscope
35. Otoscope
36. Pig tooth nippers
37. Radiology personal protective equipment
38. Rumen magnet
39. Scalpel blade
40. Scalpel handle
41. Scissors- bandage
42. Scissors- Littauer suture removal
43. Scissors – Suture wire cutting
44. Squeeze chute
45. Stethoscope
46. Surgical drapes
47. Suture materials
48. Tattooing instruments
49. Twitch - chain
50. Twitch - humane

BREED/SPECIES IDENTIFICATION LIST**Dogs:**

## SPORTING GROUP

- 51. German Shorthaired Pointer
- 52. Golden Retriever
- 53. Labrador Retriever
- 54. Weimaraner

## NON-SPORTING GROUP

- 55. Boston Terrier
- 56. Bulldog
- 57. Chinese Shar-Pei
- 58. Dalmation
- 59. Poodle

## TERRIER GROUP

- 60. Bull Terrier
- 61. Scottish Terrier
- 62. West Highland White Terrier

## HERDING GROUP

- 63. Collie
- 64. German Shepherd Dog
- 65. Pembroke Welsh Corgi

## WORKING GROUP

- 66. Boxer
- 67. Great Dane
- 68. Rottweiler
- 69. Saint Bernard

## TOY GROUP

- 70. Chihuahua
- 71. Papillon
- 72. Pomeranian
- 73. Pug
- 74. Yorkshire Terrier

## HOUND GROUP

- 75. Basset Hound
- 76. Beagle
- 77. Bloodhound
- 78. Dachshund
- 79. Greyhound

**Cats:**

- 80. Maine Coon
- 81. Ragdoll
- 82. Russian Blue
- 83. Siamese
- 84. Sphynx

**Small Mammals:**

- 85. Chinchilla
- 86. Gerbils
- 87. Guinea Pig
- 88. Hamster

**Dairy Cattle**

- 89. Brown Swiss
- 90. Guernsey
- 91. Holstein
- 92. Jersey

**Beef Cattle**

- 93. Angus
- 94. Brahman
- 95. Charolais
- 96. Hereford

**Swine**

- 97. Berkshire
- 98. Duroc
- 99. Hampshire
- 100. Yorkshire