

## **Veterinary Science**

A Special Project of the South Dakota FFA Foundation

### **Important Note:**

Please thoroughly read the General Rules at the beginning of this handbook for complete rules and procedures that are relevant to all South Dakota FFA Career Development Events.

### **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**

- Participants will demonstrate professional ethics, decision-making, 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

### **Event Rules**

A team will consist of three or four members.

The top three individual scores will be used to determine the final team score.

### **Event Format**

The Veterinary Science CDE will consist of three activities, including a written exam, identification, and a math application practicum.

### **Individual Activities**

Written exam – 100 points

The objective, multiple-choice exam is designed to determine team members' broad understanding of the veterinary science field. The written exam will consist of 50 multiple-choice questions. Sixty minutes will be given for the exam. Topics for the exam may include:

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

### Identification – 130 points

Participants will identify equipment, parasites and breeds/species for a total of 130 points (two points per item) Fifty minutes will be given for the activity. Identification lists are located at the end of this handbook.

Equipment – 50 points

Parasites – 30 points

Breeds – 50 points

### Math application practicum – 100 points

There will be ten questions each worth 10 points. Participants will have 30 minutes to complete the entire math application practicum. Questions may include conversions, dose calculations, dilutions, cost calculations, and invoices.

## Scoring

	Possible Points
Individual Test	100
Equipment Identification	50
Parasite Identification	30
Breed Identification	50
Math Practicum	100
<b>Total Possible Individual Score</b>	<b>330</b>
<b>Total Possible Team Score (3 participants count)</b>	<b>990</b>

## Tiebreakers

In the case of a team tie, the order to break the tie will be:

Combined individual practicum score.

Combined individual written exam score.

In the case of an individual tie, the order to break the tie will be:

Combined identification score.

Written exam score.

## References

This list of resources 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. The following list contains references that may prove helpful during event preparation.

### Books:

- *Veterinary Assisting: Fundamentals and Applications*. Vanhorn, Clark. ISBN: 978-1-4354-5387-6
- *McCurnin's Clinical Textbook for Veterinary Technicians*. McCurnin, Bassert. ISBN: 978-1416057000
- *Small Animal Surgical Nursing: Skills and Concepts*. Busch. ISBN: 978-0323030632
- *Large Animal Clinical Procedures for Veterinary Technicians*. Holtgrew-Bohling. ISBN: 978-0-323-07732-3
- *Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents*. Crow, Walshaw, Boyle. ISBN: 978-0813813042
- *Restraint and Handling for Veterinary Technicians and Assistants*. Ballard, Rockett. ISBN: 978-1-4354-5358-6
- *Small Animal Care and Management*. Warren. ISBN: 978-1-4180-4105-2
- *Exotic Animal Care and Management*. Judah, Nuttall. ISBN: 978-1-4180-4198-4
- *An Illustrated Guide to Veterinary Medical Terminology*. Romich. ISBN: 978-1-4354-2012-0
- *Veterinary Instruments and Equipment: A Pocket Guide*. Sonsthagen. ISBN: 978-0323032032
- *Official Guide: Maintaining and Cleaning Surgical Instruments*. Stow.
- Provided free of charge by the program or available on-line at:  
<http://www.spectrumsurgical.com>
- *Veterinary Science: Preparatory Training for the Veterinary Assistant*. Faries. ISBN: 978-0-9849115-0-9. Order online:  
[https://agrilifebookstore.org/publications\\_browse2.cfm?keywordid=4](https://agrilifebookstore.org/publications_browse2.cfm?keywordid=4)

### Websites

- American Kennel Club – <http://www.akc.org/index.cfm>
- Cat Fanciers' Association – <http://www.cfa.org/client/breeds.aspx>
- American Rabbit Breeders Association – <http://www.arba.net/>
- OSHA – <http://www.safetyvet.com/osha/oshamain>