

# Veterinary Science

## 2023-2024 MICHIGAN HOSA EVENT MODIFICATIONS FOR REGIONAL CONFERENCES!



**HOSA**  
future health professionals



### New for 2023 – 2024

A new edition of *Principles and Practices of Veterinary Technology* has been released.

Skill events now require attire appropriate to the occupational area be worn for Round 2.

These guidelines are written for ILC. States may modify events or have different event processes and deadlines. Be sure to check with your Local/State Advisor (or state website) to determine how the event is implemented for the regional/area or state conference.

Editorial updates have been made. These guidelines are specifically for Michigan HOSA members in preparation for the regional leadership conferences. For more information about regionals, please visit [www.michiganhosa.org/regionals](http://www.michiganhosa.org/regionals).

### Event Summary

Veterinary Science provides members with the opportunity to gain knowledge and skills required for diagnosis and treatment of animals. This competitive event consists of 2 rounds. Round One is a written, multiple-choice test and the top scoring competitors will advance to Round Two for the skills assessment. This event aims to inspire members to learn more about the field of veterinary care. At the regional level, all teams will advance to the round two- skill round. The test scores will be combined with the skill scores for final rating

### Sponsorship

This competitive event is sponsored by the [American Association of Veterinary Medical Colleges](http://www.aavmc.org)



### Dress Code

Competitors shall wear proper business attire or official HOSA uniform or attire appropriate to the occupational area during testing. Round 2 skill events require attire appropriate to the occupational area be worn. Bonus points will be awarded for [proper dress](#). At the regional level, teams can wear the occupational appropriate attire to test in, in addition to the skills. They do NOT need to change into business attire to take the test. Bonus points will not be added for proper dress, but judges/event managers will make note if competitors are NOT in proper dress which could result in overall point deduction.

**Competitor Must Provide:**

- A [photo ID](#)
- Two #2 lead pencils (not mechanical) with eraser for both rounds
- Sterile non-latex surgical gloves
- Exam non-latex gloves
- 2 - 4 inch wide gauze roll (18 inches or longer)

**General Rules**

1. Competitors in this event must be active members of HOSA and in good standing.
2. **Eligible Divisions:** Secondary and Postsecondary / Collegiate divisions are eligible to compete in this event.
3. Competitors must be familiar with and adhere to the "[General Rules and Regulations of the HOSA Competitive Events Program \(GRR\)](#)."
  - A. Per the [GRRs](#) and [Appendix H](#), HOSA members may request accommodation in any competitive event. To learn the definition of an accommodation, please read [Appendix H](#). To request accommodation for the International Leadership Conference, [submit the request form here](#) by May 15 at midnight EST.
  - B. To request accommodation for any regional/area or state level conferences, submit the request form [here](#) by your state published deadline. Accommodations must first be done at state in order to be considered for ILC. **Regional accommodations MUST be submitted two weeks prior to your regional conference date. Email [Samantha.pohl@mhc.org](mailto:Samantha.pohl@mhc.org) for questions.**
4. All competitors shall report to the site of the event at the time designated for each round of competition. At ILC, competitor's [photo ID](#) must be presented prior to ALL competition rounds. **Event managers will be checking photo IDs at the regional level as well. A digital copy of a photo is appropriate (i.e. picture on phone of photo ID on school portal).**

**Official References**

5. All official references are used in the development of the written test and skill rating sheets.
6. [Lawhead, James and Baker. Introduction to Veterinary Science. Cengage Learning. Latest Edition.](#)
7. [Sirois, M. and Wortinger, A. Principles and Practice of Veterinary Technology. Elsevier. Latest Edition.](#)
8. Reference for Skill VII: [Preparing a Feline for Exam AAFP and ISFM Feline-Friendly Handling Guidelines](#)
9. References for Companion Animal Breeds/Species Identification: (as posted as of Sept. 1, 2023)
  - Dogs = American Kennel Club - [www.akc.org](http://www.akc.org)
  - Cats = The Cat Fanciers' Association - [www.cfainc.org](http://www.cfainc.org)

**Round One Test**

10. [Test Instructions](#): The written test will consist of 50 multiple choice items in a maximum of 60 minutes.

11. **Time Remaining Announcements:** There will be NO verbal announcements for time remaining during ILC testing. All ILC testing will be completed in the Testing Center and competitors are responsible for monitoring their own time. **There will be NO verbal announcements for time remaining during regional testing. Students are responsible for monitoring their own time.**

12. **Written Test Plan** (Includes both Large and Small Animals)
- Anatomy and Physiology..... 24%
  - Basic Nutrients..... 10%
  - Animal Behavior..... 6%
  - Diseases/Disease Prevention..... 14%
  - Zoonoses..... 6%
  - Clinical Practice..... 10%
  - Emergency Care/First Aid..... 12%
  - Principles of Surgery..... 12%
  - Veterinary Careers..... 6%

13. The test score from Round One will be used to qualify the competitor for the Round Two. **All teams will advance to the round two skills.**

14. **Sample Test Questions**

1. How many days is the average length of pregnancy for a cat? (Lawhead pp 140)
  - A. 15 - 20
  - B. 30 - 35
  - C. 58 - 65**
  - D. 90 - 112
  
2. Which procedure is used when performing a surgical site prep scrub? (Sirois pp 383)
  - A. Scrub from the area with alcohol after removing the hair
  - B. Scrub from the intended incision area outward in concentric circles**
  - C. Scrub from the outside of the shaved area to the central area
  - D. Scrub in large straight strokes across the surgical area
  
3. What type of organism causes ringworm in animals? (Lawhead pp 248)
  - A. Bacteria
  - B. Parasite
  - C. Virus
  - D. Fungus**

**Round Two Skills** Highlighted in yellow are the two skills that will be evaluated at the regional level.

15. Round Two is the performance of a selected skill(s). The skills approved for this event are:

- Skill I: Identify Instruments/Equipment 15 minutes**  
**Numbered Instruments (15) or photos from list:**

Ambu Bag	Endotracheal Tubes & Laryngoscope	Mouth Speculum	Sharps Container
Autoclave	Fecal Floatation Kits	Needle Holders	Splints
Bair Hugger Warming Unit	Hoof Testers	Patient Warming System	Surgical Pack
Balling Gun	Insulin Syringe	Penrose Drains	Tetotomy or Iris Scissors
Barnes Dehorner	Lavage System	Pulse Oximeter	Through the Needle Catheter
Binocular Microscope	Leukopet System	Radiograph Machine	Tissue Forceps
Butterfly Catheter	Mayo Scissors	Reagent Strip Test	Tooth Float
Cattle Prod	Mayo Stand	Scalpel Blades	Trocar
Colostrometer	Mobile Crash Cart	Semi-Automated External Defibrillator	Urinary Catheters
	Mobile X-Ray Unit	Senn Or Rake Retractor	Vacutainer

- Skill II: Identification of Companion Animal Breeds/Species 8 minutes  
 Skill III: Preparation of the Operative Site 7 minutes  
**Skill IV: Simple Fecal Flotation 5 minutes**

Skill V:	Lifting and Restraining a Dog	4 minutes
Skill VI:	Wrapping a Surgical Pack	3 minutes
Skill VII:	Preparing a Feline to Obtain a Temperature	6 minutes

**(FOR ALL SKILLS, BODY FLUIDS WILL BE A SIMULATED PRODUCT & LIVE ANIMALS ARE NOT USED)**

16. Skills I and/or II may be administered with the Round One written test.
17. The selected skill(s) will be presented to competitors as a written scenario at the beginning of the round. The scenario will be the same for each competitor and will include a challenging component that will require the competitors to apply critical thinking skills. A sample scenario can be found [here](#).
18. Timing will begin when the scenario is presented to the competitors and will be stopped at the end of the time allowed.
19. The scenario is a secret topic. Competitors MAY NOT discuss or reveal the secret topic until after the event has concluded or will face penalties per [the GRRs](#).
20. Judges will provide information to competitors as directed by the rating sheets. Competitors may ask questions of the judges while performing skills if the questions relate to patient's condition and will be included in the scenario or judge script.

**Final Scoring**

21. The competitor must earn a score of 70% or higher on the combined skill(s) of the event (excluding the test and ID equipment/animal breeds) in order to be recognized as an award winner at the ILC.
22. Final rank is determined by adding the round one test score plus round two skill score. In case of a tie, the highest test score will be used to determined final placement.

# VETERINARY SCIENCE

Competitor #: \_\_\_\_\_ Judge's Initials: \_\_\_\_\_ Total Points (45 poss.) \_\_\_\_\_

**Skill I: Identify Equipment and Instruments (Time: 15 minutes)**

Name of Instrument	Points (1 each for name & spelling)	Purpose or Use	Points (1 point for correct purpose/use)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
<b>TOTAL: ID &amp; Spelling (30 poss)</b>		<b>TOTAL: Purpose (15 poss.)</b>	

# VETERINARY SCIENCE

Section # \_\_\_\_\_ Division: \_\_\_\_\_ SS \_\_\_\_\_ PS/Collegiate  
 Competitor # \_\_\_\_\_ Judge's Signature \_\_\_\_\_

<b>Skill IV Simple Fecal Flotation (Time: 5 minutes)</b>	<b>Possible</b>		<b>Awarded</b>
1. Washed hands or used alcohol based hand-rub for hand hygiene	2	0	
2. Applied non-latex exam gloves.	2	0	
3. Assembled equipment and supplies.	1	0	
4. Placed approximately 2 – 5 g of feces in a paper cup.	1	0	
5. Add 30 ml of flotation solution.	1	0	
6. Using the tongue depressor, mix the feces to produce an evenly suspended emulsion.	1	0	
7. Poured the suspension through a 10 cm (4"x4") gauze square into another cup.	1	0	
8. Filled the shell vial (or 15 ml conical centrifuge tube) with the filtered solution to form a convex dome (meniscus) at the rim.	1	0	
9. Placed a cover slip on top of the meniscus.	1	0	
10. Verbalized leaving the cover slip in place for 10 – 20 minutes.	1	0	
11. Picked the cover slip straight up and placed on a glass slide, fluid side down.	1	0	
12. Removed non-latex gloves and washed hands or used alcohol based hand-rub for hand hygiene.	2	0	
<b>TOTAL POINTS – SKILL IV</b>	<b>15</b>		
<b>70% Mastery for Skill IV = 10.5</b>			