

Epidemiology

Emergency Preparedness Event

Eligible Divisions: Secondary & Postsecondary / Collegiate	Round 1: 75 Q test in 90 minutes	Digital Upload: NO
Solo Event: 1 competitor		



New for 2024 – 2025

Resource link for CDC Disaster Epidemiology and Response has been updated. Editorial updates have been made.

TEXAS HOSA

Make sure to read the Texas provides General Rules and Regulations for the updated "Electronic Device Policy".

<u>Area Spring Leadership Conference</u> The online test for Area will be given in December. The top 3 individual scores from each Area will advance to the State Leadership Conference.

Texas State Leadership Conference

The State written exam will be given in person at Kalahari to those who advanced from each Area. The top 3 individual scores from State will advance to ILC.

Event Summary

Epidemiology members with the opportunity to gain knowledge about health and disease in populations. This competitive event consists of a written exam of concepts related to the study of epidemiology with a tiebreaker essay question. Competitors are expected to recognize, identify, define, interpret, and apply these concepts in a multiple-choice test. The event aims to motivate members to become proactive future health professionals, enhancing their scientific literacy and offering valuable insights into careers in public health.

Dress Code

Proper business attire or official HOSA uniform. Bonus points will be awarded for proper dress.

Competitor Must Provide:



Two #2 lead pencils (not mechanical) with eraser

General Rules

1. Competitors must be familiar with and adhere to the General Rules and Regulations.

Official References

- 2. The references below are used in the development of the test questions. Content is posted as of September 1, 2024:
 - a. PH 101 Series 8%
 - An Introduction to Epidemiology
 - b. Environmental Health Resources 8%
 - Agency for Toxic Substances and Disease Registry: Environmental Health
 - c. <u>Basic Epidemiology World Health Organization</u> 10%

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The expectation is that competitors read and are aware of all content within these guidelines and associated links. Successful competitors will study all links for detailed information.

- What is Epidemiology?
- Measuring Health and Disease
- Types of Studies
- d. WHO Fact Sheets: Infectious Disease 8%
- e. Public Health Careers 3%
- CDC: Disaster Epidemiology and Response 7% f.
 - **CDC** Activities •
 - Mission, goals and objectives •
 - Application and service in disaster settings: surveillance and rapid needs assessment •
 - Applied research to prevent injuries, illnesses and deaths
 - Consultation and training
 - Field investigation
- Office of Assistant Secretary for Preparedness & Response 6% g.
 - Under the response operations tab
 - 0 Public Health Response and Recovery
 - National Disaster Medical System 0
 - Medical Reserve Corps 0
- h. CDC: Morbidity and Mortality Weekly Report 50%
 - Case studies, investigations, surveillance summaries and scientific information and recommendations

Written Test

- 3. Test Instructions: The written test will consist of 75 multiple choice items in a maximum of 90 minutes. Written case studies, investigations, surveillance summaries, and scientific information will be a part of the test and will include background information about selected public health situations with a series of multiple-choice questions related to the data.
- 4. One essay question will be administered with the test.
- 5. At the International Leadership Conference, HOSA will provide basic handheld calculators (no graphing calculators) for addition, subtraction, division, multiplication and square root.
- 6. 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 time.

7. Sample Test Questions

What is the term for the proportion of a disease or other outcome in exposed individuals that can 1. be credited to the exposure? (WHO pp 35)

A. Attributable risk

- B. Risk benefit
- C. Cohort study
- D. Odds advantage
- 2. In an epidemiology study, how is the specified population identified? (CDC Intro 1-4)
 - A. People affected by the condition/disease
 - B. Conditions where large numbers of people were affected
 - C. People exposed to a condition/disease
 - D. People who died from a disease/condition
- 3. Which type of epidemiological study is best characterized as a survey? (CDC ATSDR)
 - A. Case-control
 - B. Cohort
 - C. Relational
 - **D.** Cross-sectional

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Page 2 of 3 The expectation is that competitors read and are aware of all content within these guidelines and associated links. Successful competitors will study all links for detailed information.

Final Scoring

8. In case of a tie, the essay will be judged and used to break the tie.

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