

Epidemiology

Emergency Preparedness Event

Eligible Divisions: Secondary & Postsecondary / Collegiate	Round 1: 50 Q test in 60 minutes	Digital Upload: NO
Solo Event: 1 competitor		



New for 2025-2026

The number of test items has been changed to 50 questions in a 60-minute time period. Numerous websites have been retired. The following website has been added: https://courses.activepi.com/ The test plan has been updated. Editorial updates have been made.

Event Summary

Epidemiology allows members 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. In the event of a tie, the essay will be judged to break the tie. Competitors must 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:

- Photo ID
- Two #2 lead pencils (not mechanical) with erasers

HOSA Conference Staff will provide equipment and supplies as listed in Appendix I.

General Rules

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, 2025:
 - a. PH 101 Series
 - b. ActivEpi
 - c. Environmental Medicine Education Resources
 - d. CDC: Morbidity and Mortality Weekly Report

Written Test

- 3. <u>Test Instructions:</u> The written test will consist of 50 multiple-choice items in a maximum of 60 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.

 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. Test Plan

The test plan for the Epidemiology Test is:

- Introduction to Epidemiology: (30%)
 - o Basic concepts
 - o Types of case studies
 - o Measuring health and disease
 - o Causation
 - o Surveillance
- World and Government Response to Infectious Diseases (20%)
 - o WHO Infectious Diseases
 - o CDC Activities
 - o Governments responses
- CDC: Morbidity and Mortality Weekly Report (50%) (CDC: Morbidity and Mortality Weekly Report)
 - o Case studies, investigations, surveillance summaries, scientific information, and recommendations

8. Sample Test Questions

- 1. What is the term for the proportion of a disease or other outcome in exposed individuals that can 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

Final Scoring

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

Future Opportunities