

Health Informatics

Health Science Event

Eligible Divisions: Secondary & Postsecondary / Collegiate	Round 1: 100 Q test in 90 minutes	Digital Upload: NO
Solo Event: 1 competitor		



New for 2024 – 2025
Editorial updates have been made.

TEXAS HOSA

Make sure to read the Texas General Rules and Regulations for the updated “**Electronic Device Policy**”.

Area Spring Leadership Conference 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

The Health Informatics test will assess knowledge and skills related to health information systems, analysis of healthcare data and information, and clinical research processes. This competitive event consists of a written test with a tiebreaker essay question.

Sponsorship

HOSA-Future Health Professionals is appreciative for the sponsorship of Health Informatics by [The American Health Information Management Association](#).



Dress Code

Proper business attire or official HOSA uniform. Bonus points will be awarded for [proper dress](#).

Competitors Must Provide:

- [Photo ID](#)
- 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 below references are used in developing the test questions. (Aug 30, 2024 - these links are being updated. Check back for corrected links soon.)
 - a. [Zhou & Clack. Introduction to Healthcare Informatics. AHIMA Press. Latest edition.](#)
 - b. [White, Susan. A Practical Approach to Analyzing Healthcare Data. AHIMA Press. Latest edition.](#)

Written Test

3. [Test Instructions](#): The written test will consist of 75 multiple-choice items in a maximum of 90 minutes.
4. One essay question will be administered with the test.
5. **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.

6. Test Plan

The test plan for the Health Informatics Test is:

- History, Careers, and Roles - 8%
- Information Systems in Healthcare - 12%
- Data Analytics - 28%
- Data Integrity and Quality - 8%
- Data Governance - 12%
- Health Information Privacy & Security - 12%
- Ethics - 4%
- Research Study and Design - 12%
- Emerging Technologies - 4%

7. The test will include case studies, clinical trials, and EHRs. It will assess knowledge and skills related to analyzing background data and information, data entry and retrieval, and risk measures and calculations. A series of multiple-choice questions related to the data will be included.
8. At the International Leadership Conference, HOSA will provide basic handheld calculators (no graphing calculators) for addition, subtraction, division, multiplication, and square root calculations.

9. Sample Test Questions

1. An entry-level _____ position includes identifying data problem areas and conducting research to determine the best course of action and analyze and solve issues with legacy, current, and planned systems as they relate to the integration and management of patient data. (White pp 14)
 - A. Health information
 - B. Electronic health record
 - C. Health data analyst**
 - D. Medical analyst
2. The automated or manual sharing of data between disparate EHR or PHR platforms is called: (Zhou pp 17)
 - A. Sharecare.
 - B. A Clinical information system platform.
 - C. Interface sharing.
 - D. Interoperability.**
3. The process of bringing together and summarizing large amounts of data from multiple sources is: (Zhou pp 458)
 - A. Data consolidation.**
 - B. Data manipulation.
 - C. Purging.
 - D. Developing a data dictionary.

Final Scoring

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

