



New for 2023 – 2024

The Hoyt and McWay resources have been retired. The new resources are *Introduction to Healthcare Informatics* and *A Practical Approach to Analyzing Healthcare Data*. The test plan has been updated. Scratch paper will no longer be provided. Competitors may write on the test booklet. Editorial updates have been made. 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.

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

This competitive event is sponsored by [The American Health Information Management Association](#).



Dress Code

Competitors must be in official HOSA uniform or in proper business attire. 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 in this event must be active members of HOSA-Future Health Professionals 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.

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.

Official References

5. All official references are used in the development of the written test:
6. [Zhou & Clack. *Introduction to Healthcare Informatics*. AHIMA Press. Latest edition.](#)
7. [White, Susan. *A Practical Approach to Analyzing Healthcare Data*. AHIMA Press. Latest edition.](#)

Written Test

8. [Test Instructions](#): The written test will consist of 75 multiple choice items in a maximum of 90 minutes.
9. **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.
10. One essay question will be administered with the written test. In case of a tie, the essay question will be judged and used to break the tie.
11. The test plan and resources for Health Informatics:
- | | |
|---|-----|
| 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% |
12. Case studies, clinical trials, and EHRs will be a part of the test. The test will assess knowledge and skills related to the analysis of 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.
13. At the International Leadership Conference, HOSA will provide basic handheld calculators (no graphing calculators) for addition, subtraction, division, multiplication, and square root calculations.
14. **Sample Test Questions**
1. An entry-level _____ position include identify data problem areas and conduct research to determine 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 for 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

15. The competitor should write their answer to the tiebreaker essay question on the tiebreaker page of the test that remains attached to the original test.
16. Final rank is determined by the test score. In case of a tie, the essay question will be used to determine the rank.