

# Health Informatics

## 2020 - 2021

Health Informatics is a new test event in the Health Science Category.  
Competitor orientation deleted from ILC.

### Event Summary

Health Informatics provides members with the opportunity to gain knowledge and skills regarding the management of health information and the assimilation of technology in health care. This competitive event consists of a written test and aims to inspire members to learn about concepts related to the study of informatics.

**Dress Code** Competitors must be in official HOSA uniform or in proper business attire. Bonus points will be awarded for [proper dress](#).

- General Rules**
1. Competitors in this event must be active members of HOSA-Future Health Professionals and in good standing.
  2. 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 \(GRR\)](#)."
  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

- [Hoyt, Robert E. and William R Hersh, Health Informatics Practical Guide, Informatics Education, Latest Edition.](#)
- [Nelson, Ramona and Nancy Staggers, Health Informatics An Interprofessional Approach, Elsevier, Latest Edition.](#)

### Written Test

5. [Test Instructions](#): The written test will consist of 75 multiple choice items in a maximum of 90 minutes.
6. **Time Remaining Announcements**: There will be a verbal announcement when there are 30 minutes, 15 minutes, 5 minutes, and 1 minute remaining to complete the test.
7. A written tiebreaker will be administered with the original test. In case of a tie, this written response will be judged and used to break the tie.
8. The test plan and resources for Health Informatic Test are:
 

<b>Test Plan:</b>	
History, Careers and Roles.....	5%
Healthcare Data and Analytics.....	10%
Electronic Health Records, Information Exchange & Retrieval.....	12%
Health Information Privacy & Security.....	5%

Health Information Ethics & Governance.....	5%
Patient Safety & Consumer Health Information.....	11%
Information Systems In Healthcare Delivery.....	10%
Evidence Based Clinical Practice.....	12%
Application: EBM Case Studies & Clinical Trials; EHR Data Entry, Retrieval & Analysis.....	30%

9. Case studies, clinical trials, and EHRs will be a part of the test and 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.
10. At the International Leadership Conference, HOSA will provide basic handheld calculators (no graphing calculators) for addition, subtraction, division, multiplication and square root. Check with State Advisor to determine if a calculator will be used at the State level.
11. All competitors will receive two (2) 8.5x11” sheets of blank paper for use during the test.

12. **Sample Test Questions**

1. Which discipline is defined as the management of healthcare data and information through the application of computers and other information technologies?
  - A. Bioinformatics
  - B. Public Health Informatics
  - C. Health Informatics**
  - D. Clinical Informatics

Hoyt/Hersh pp 2
2. In what year was the world’s first computer-aided medical information system installed to aid in actual patient care?
  - A. 1958
  - B. 1962
  - C. 1971**
  - D. 1983

Nelson/Staggers pp 597
3. What is the term for online groups in which patients interact, sharing health-related data and learning from each other’s experiences while being unbound by geographic limitations, social stigma, or other limiting characteristics?
  - A. eHealth precision medicine
  - B. ePatient exchange
  - C. Patient-focused virtual communities**
  - D. ePatient platform

Nelson/Staggers pp 213

**Final Scoring**

13. Final rank is determined by the test score. In case of a tie, the essay question will be used to determine the rank.

**Competitors Must Provide:**

Two #2 pencils with erasers

[Photo ID](#)