Purpose
To encourage HOSA members to analyze the problem solving process and to work as a team to apply their problem solving skills in creating a solution to a hypothetical health or HOSA-related problem.

Description
This event will involve two rounds of competition. Round One will consist of a written test to evaluate the team's understanding of problem solving processes and theories. Written test will measure knowledge and understanding at the recall, application or analysis levels. Higher-order thinking skills will be incorporated as appropriate. The top scoring teams will advance to Round Two and will be given a potential problem related to HOSA, the health community, or a specific health issue. Teams will have 30 minutes to analyze the problem. Selected resource materials related to the problem will be provided. At the end of the preparation time, teams will have eight (8) minutes to present their solution to a panel of judges.

Dress Code
Competitors shall wear the HOSA uniform or proper business attire. Bonus points will be awarded in both rounds for proper dress. All team members must be properly dressed to receive bonus points.

Rules and Procedures
1. Competitors in this event must be active members of HOSA in good standing in the division in which they are registered to compete (Secondary or Postsecondary/Collegiate).

2. Competitors must be familiar with and adhere to the “General Rules and Regulations of the HOSA Competitive Events Program (GRR)."

3. Each team will consist of 3-4 team members.

4. Round One Test Instructions: Each team will be evaluated in Round One by a fifty (50) item multiple choice written test. Competitors will be given sixty (60) minutes to complete the test.

   A. All competitors shall report to the site of the event orientation at the time designated. The Round One test will immediately follow the orientation. No proxies will be allowed for the orientation. At ILC, photo ID must be presented prior to competing in each round.

   B. The team test score average from Round One will be used to qualify the team for the Round Two presentation. The team test score average will then be added to the presentation score to determine final results.
C. Round I: Written Test Plan

Creative Thinking 30%
Problem Solving Strategies & Skills 10%
Problem Identification 10%
Clarification of Problems/Developing Objectives 15%
Examining Constraints/Developing Alternatives 15%
Generating Ideas & Solutions/Deciding a Course of Action 10%
Sharing Decisions/Troubleshooting/Implementation 10%

NOTE: States/regions may use a different process for testing, to include but not limited to pre-conference testing, online testing, and testing at a computer. Check with your Area/Region/State for the process you will be using.

5. All official references are used in the development of the written test.

6. **Round Two**: the problem is a secret topic. Each team will be asked to solve the same problem. Professional ethics demand that competitors DO NOT discuss or reveal the secret topic until after the event has concluded. Competitors who violate this ethical standard will be penalized in accordance with GRR #15-17.

7. Resources will be provided to teams for use during their 30 minute preparation time, if applicable. No other materials may be brought into the preparation room. Competitors will be provided with index cards for taking notes for use during their oral presentation. Teams will also be provided with flip chart paper and markers for use during their preparation only.

8. The section leader will announce when teams have one (1) minute remaining in the preparation room by saying, “You have one minute remaining. Please conclude your preparation, gather your materials, and prepare to be escorted to the presentation room.”

9. At the conclusion of the 30 minute preparation time, teams will be escorted to another room for their oral presentation. Teams may take the index cards and the flip chart paper they prepared during the preparation time to use during the oral presentation. The flip chart paper and index cards are the only items to be used during the oral presentation.

10. Teams will be allowed a maximum of eight (8) minutes for their oral presentation of a solution to the secret problem. The timekeeper shall present a flash card advising the competitors when there is one (1) minute remaining. Time will be stopped at the end of eight (8) minutes. Judges will have two additional minutes to complete the rating sheet.

11. All team members must take an active role in the presentation.

12. In case of a tie, the highest averaged test score will be used to determine the rank.
Competitor Must Provide
- Event guidelines – one per team (orientation)
- #2 lead pencils with eraser
- Photo ID
- Watch with second hand (optional)

For specifics on event management see MANAGING COMPETITIVE EVENTS

Required Personnel
- One Event Manager
- One QA to provide quality assurance for the event by ensuring that the guidelines are followed and all event documents are complete.
- One Section Leader per section
- Two - three judges per section
- Preparation room attendant (One per preparation room)
- One-two event assistants per section
- One time-keeper per section

Facilities, Equipment and Materials (Per Section)

Round One: Written Test (Reference: All resources)
- Testing room with tables/chairs for the number of registered competitors (see HOSA Room Set)
- List of competitors for check-in
- One pre-numbered test per competitor
- Scantron/answer forms- one copy per competitor
- Evaluation forms - competitor and event personnel
- #2 lead pencils with eraser to complete evaluations (event personnel)

Round Two: Presentation Round
- Preparation room with table and chairs – If there are multiple sections, more than one team may prepare at the same time in the preparation room. (see HOSA Room Set)
- Presentation room(s) (see HOSA Room Set)
- List of competitors for check-in
- Copy of secret problem - one for each team member and judge
- Stop watch/Timer (for prep room(s) and presentation rooms)
- Index cards
- Flip chart paper – as many pages as needed per team
- Flip chart pad and/or easel in preparation and presentation room(s)
- Colored Markers for prep room(s)
- Masking or blue painters tape (if self-adhesive flip chart paper/easel is not used)
- Flash card for 1 minute remaining (for presentation rooms)
- Rating sheets – one per judge per team
- Evaluation Forms – competitor, judge, and personnel
- #2 lead pencils with eraser (judges & evaluations)
- Copy of guidelines for judges
- Hand sanitizer (alcohol based handrub)
Sample Round One Test Questions

1. According to John Scully, the former chairman of Apple Computer, a key ingredient of successful teams is:
   A. reasonability.
   B. viability.
   C. creativity.
   D. profitability.

2. The purpose of the ‘outcomes window’ when considering solutions is to:
   A. determine how much it will cost to implement each solution.
   B. determine if all solutions have been considered.
   C. list positive and negative consequences of a decision.
   D. test others to determine if they will accept or reject the solutions.

3. The key to creatively generating associations and connections between dissimilar subjects is called:
   A. balancing concepts.
   B. conceptual blending.
   C. disassociation.
   D. intermingling ideas.

Event Flow Chart

Competitors attend required Orientation.

ROUND ONE: Team members will have 60 minutes to take a 50-item multiple choice test. Scores will be averaged and the top teams will advance.

ROUND TWO: Teams report at appointment time for 30 minute preparation of solution to secret problem.

Teams escorted to oral presentation room to present solution to panel of judges.

Judges complete rating sheet. TABS will add averaged team test score to team presentation score for final tally. If there are multiple sections, the computer is used to mathematically compensate for the differences among judges and fairly determine the final standings.
<table>
<thead>
<tr>
<th>Items Evaluated</th>
<th>Points Possible</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Understanding of problem/health issue.</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>B. Effectively applies previous knowledge and experience to current problem.</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>C. Solution was clear and logical.</td>
<td>15 12 9 6 3 0</td>
<td></td>
</tr>
<tr>
<td>D. Solution was financially sound and workable.</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>E. Presentation included effective use of the information provided to teams in the secret topic.</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>F. An imaginative and innovative approach was used to solve the problem.</td>
<td>15 12 9 6 3 0</td>
<td></td>
</tr>
<tr>
<td>G. Evidence of teamwork in reaching a solution.</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>H. Organization, delivery and quality of oral presentation (poise, tempo).</td>
<td>10 8 6 4 2 0</td>
<td></td>
</tr>
<tr>
<td>I. All team members took an active role in the presentation.</td>
<td>5 4 3 2 1 0</td>
<td></td>
</tr>
<tr>
<td>TOTAL POINTS</td>
<td>95</td>
<td>0</td>
</tr>
</tbody>
</table>