New for 2022 - 2023
Test plan percentages have changed.
There will be NO verbal announcements during testing.
Editorial update have been made for clarity.

Event Summary
Creative Problem Solving provides members with the opportunity 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. This competitive event consists of 2 rounds and each team consists of 3-4 people. Round One will consist of a written test and the score will be used to qualify the team for Round Two. In Round Two teams will be given a potential problem related to HOSA, the health community, or a specific health issue and have 30 minutes to analyze the problem. At the end of the preparation time, teams will have eight (8) minutes to present their solution to a panel of judges. This event aims to inspire members to be proactive future health professionals and utilize higher order thinking to solve complex challenges.

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.

Competitor Must Provide
☐ Photo ID
☐ #2 lead pencils (NOT mechanical) with eraser

General Rules
1. Competitors in this event must be active members of HOSA in good standing.

2. Eligibility 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).”
   - Per the GRRs #11 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.
To request accommodation for any regional/state level conferences, please work with your local and state advisor directly. Accommodations must first be done at state in order to be considered for ILC.

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

5. All competitors shall report to the site at the time designated for each round. At ILC, photo ID must be presented prior to competing in each round.

Official References

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


ROUND ONE: The Test

10. Round One Test Instructions: Each team will be evaluated in Round 1 by a fifty (50) item multiple choice written test. Competitors will be given sixty (60) minutes to complete the test.

11. The team test score average from Round One will be used to qualify the team for the Round Two presentation.

12. Round One: Written Test Plan
   - Creative Thinking.......................................................... 30%
   - Clarification of Problems/Developing Objectives...................... 14%
   - Examining Constraints/Developing Alternatives........................ 16%
   - Problem Solving Strategies & Skills...................................... 10%
   - Problem Identification...................................................... 10%
   - Generating Ideas & Solutions/Deciding a Course of Action........... 10%
   - Sharing Decisions/Troubleshooting/Implementation.................. 10%

13. 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.

14. Sample Round One Test Questions
   1. According to John Scully, the former chairman of Apple Computer, what is a key ingredient of successful teams? (Fogler pp 27)
      A. Creativity
      B. Viability
      C. Reasonability
      D. Profitability

   2. When considering solutions, what is the purpose of an outcomes window?(Adair pp 31)
      A. To estimate how much it will cost to implement each solution
      B. To determine if all solutions have been considered
      C. To list positive and negative consequences of a decision
      D. To test to determine if other people will accept or reject the solutions
3. What is the term for creatively generating associations and connections between dissimilar subjects? (Michalko pp xiv)
   A. Balancing concepts
   B. Conceptual blending
   C. Disassociation
   D. Intermingling ideas

ROUND TWO: The Problem and Presentation
15. 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 per the GRRs.

16. Resources about the secret topic may be provided to teams for use during their 30-minute preparation time (such as data, supporting research, etc.).
   Materials allowed in preparation room:
   - HOSA will provide index cards for taking notes.
   - HOSA will provide flip chart paper and markers for preparing solution materials.
   - Competitors may NOT bring anything, except pencils, into the preparation room.

17. The section leader will announce when teams have five (5) minutes and one (1) minute remaining in the preparation room. At the one-minute mark section leader will announce, “You have one minute remaining. Please conclude your preparation, gather your materials, and prepare to be escorted to the presentation room.”

18. At the conclusion of the 30-minute preparation time, teams will be escorted to another room for their oral presentation.
   Materials allowed in the oral presentation room:
   - Index cards the team prepared as notes in the preparation room.
   - Flip Chart paper the team prepared to support their solution in the preparation room.
   - Extra paper, markers, or any other materials will NOT be allowed in the presentation room.

19. 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.

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

Final Scoring
21. The team test score average will be added to the presentation score to determine final results.

22. In case of a tie, the highest averaged test score will be used to determine the rank.
### Creative Problem Solving

**ROUND TWO: Judge’s Rating Sheet**

<table>
<thead>
<tr>
<th>A. Presentation Content</th>
<th>Excellent 15 points</th>
<th>Good 12 points</th>
<th>Average 9 points</th>
<th>Fair 6 points</th>
<th>Poor 0 points</th>
<th>JUDGE SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Understanding of problem/health issue</td>
<td>Demonstrates clear evidence of a deep, insightful understanding of the problem or health issue.</td>
<td>Shows a solid grasp or understanding of the problem or health issue.</td>
<td>Demonstrates an average understanding of the problem or health issue. Judges left with a few questions</td>
<td>Shows a basic understanding of the problem or health issue. Judges left with more questions than answers.</td>
<td>Team is not able to demonstrate an understanding of the problem or health issue.</td>
<td></td>
</tr>
<tr>
<td>2. An imaginative and innovative approach is used to solve the problem</td>
<td>The team provided creative, imaginative solution(s) that were highly innovative and thoughtful.</td>
<td>The solution was unique and offered a fresh approach to solving the problem. Missing the “wow” factor though.</td>
<td>The solution to the problem was adequately imaginative. Would like to see more innovation in the solution.</td>
<td>Solutions provided were unoriginal and little imagination was included in the presentation.</td>
<td>No evidence of imagination was used to solve the problem.</td>
<td></td>
</tr>
<tr>
<td>3. Explanation of solution</td>
<td>Clear and concise explanation of the solution in a logical, well-constructed presentation.</td>
<td>The explanation of the solution was mostly clear and logical.</td>
<td>An average explanation of the solution was provided. Some aspects seem to be presented out of sequence.</td>
<td>The explanation of the solution did not flow and was hard to follow.</td>
<td>The explanation did not provide a logical solution and was fragmented.</td>
<td></td>
</tr>
<tr>
<td>4. Applies previous knowledge and experience to current problem</td>
<td>Clear, thorough connection to prior knowledge and experiences were used to enhance the solution to the current problem.</td>
<td>Good examples of previous knowledge and experiences were applied to the solution of the current problem.</td>
<td>Some demonstration of prior knowledge and experiences were applied to the solution of the current problem.</td>
<td>Prior knowledge and experiences were not clearly demonstrated in correlation to the current problem.</td>
<td>No prior knowledge or experiences were connected to the current problem.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Excellent 10 points</th>
<th>Good 8 points</th>
<th>Average 6 points</th>
<th>Fair 4 points</th>
<th>Poor 0 points</th>
<th>JUDGE SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Explanation of solution is financially sound</td>
<td>The solution is realistic and financially sound. The resources required to fund this solution are thoughtful and concise.</td>
<td>The solution appears to be financially sound. Slight questions arise on the feasibility of the budget and ability to complete the task in a fiscally responsible manner.</td>
<td>The solution may require resources that are outside the budget constraints of this project. Careful consideration must be made to move forward with this project.</td>
<td>The solution provides questionable budget requirements and would require further attention to detail.</td>
<td>The solution is outside of budget constraints and is not recommended to move forward as presented.</td>
</tr>
<tr>
<td>6. Use of the information provided in the secret topic</td>
<td>The presentation offered clear and effective use of the information provided in the secret topic.</td>
<td>The information on the secret topic was mostly effective in the presentation but could have been clearer.</td>
<td>The presentation provided an average use of the information provided in the secret topic.</td>
<td>The presentation used a small amount of the information provided to teams on the secret topic.</td>
<td>The team did not include information provided on the secret topic.</td>
</tr>
</tbody>
</table>
### B. Presentation Delivery

<table>
<thead>
<tr>
<th>Excellent 10 points</th>
<th>Good 8 points</th>
<th>Average 6 points</th>
<th>Fair 4 points</th>
<th>Poor 0 points</th>
<th>JUDGE SCORE</th>
</tr>
</thead>
</table>
| 1. Voice
Pitch, tempo, volume, quality | Each team's voice was loud enough to hear. They varied rate & volume to enhance the speech. Appropriate pausing was employed. | The team spoke loudly and clearly enough to be understood. The competitor varied rate or volume to enhance the speech. Pauses were attempted. | The team could be heard most of the time. The competitors attempted to use some variety in vocal quality, but not always successfully. | The team's voice is low. Judges have difficulty hearing the presentation. | Judge had difficulty hearing and/or understanding much of the speech due to low volume. Little variety in rate or volume. |

| 2. Stage Presence
Poise, posture, eye contact, and enthusiasm | Movements & gestures were purposeful and enhanced the delivery of the speech and did not distract. Body language reflects comfort interacting with audience. Facial expressions and body language consistently generated a strong interest and enthusiasm for the topic. | The team maintained adequate posture and non-distracting movement during the speech. Some gestures were used. Facial expressions and body language sometimes generated an interest and enthusiasm for the topic. | Stiff or unnatural use of nonverbal behaviors. Body language reflects some discomfort interacting with audience. Limited use of gestures to reinforce verbal message. Facial expressions and body language are used to try to generate enthusiasm but seem somewhat forced. | Most of the team's posture, body language, and facial expressions indicated a lack of enthusiasm for the topic. Movements were distracting. | No attempt was made to use body movement or gestures to enhance the message. No interest or enthusiasm for the topic came through in presentation. |


| 4. Team Participation | Excellent example of shared collaboration in the presentation. Each team member spoke and carried equal parts of the presentation. | All but one person on the team was actively engaged in the presentation. | The team worked together relatively well. Some of the team members had little participation. | The team did not work effectively together. | One team member dominated the presentation. |

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*Definition of Diction – Choice of words especially with regard to correctness, clearness, and effectiveness.  
**Definition of Pronunciation – Act or manner of uttering officially