

Creative Problem Solving

Dress Code	Official HOSA uniform or business professional attire
SLC Orientation	Event explained to the competitors and individual timecards handed out. Students will return to the event room at least 5 minutes before their allotted time.
Team Numbers	Teams will consist of 2-6 people
Round # 1 Online Test	Competitors will take an online test during the testing window. Combined team scores will be used to qualify into Round 2 of the competition. Advisors will be informed of which competitors have moved on from Round 1 to qualify to participate in Round 2 at SLC.
Round # 2	<ul style="list-style-type: none"> - The Event Manager will hand out secret topics at 20 minute intervals - Each team will be given an appointment time written on an index card. Students need to stay in vicinity of room. - There will be 30 minutes to prepare presentations per team (secret topics will be handed out to each group at different times) - Presentation to judges will be max 8 minutes
Scoring	Scores from Round One will be combined with Round Two rubric scores for a combined final score.

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 2-6 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.

Official References

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

- [Adair, John. *Decision Making & Problem Solving: Break Through Barriers and Banish Uncertainty at Work \(Creating Success, 8\)*. Kogan Page. Latest edition.](#)
- [Sternad, Dietmar. *Solve It!* Econcise Publishing. Latest edition.](#)
- [Thinknetic. *Critical Thinking & Logic Mastery 3 Books in 1*. Latest edition.](#)

ROUND ONE: The Test

Test Instructions: There will be a maximum of 60 minutes to complete the 50 item multiple choice test during the online testing window.

Written Test Plan

- Critical & Effective Thinking..... 26%
- Problem Solving Strategies & Skills.....24%
- Clarification of Problems and Generating Ideas.....10%
- Examining Constraints/Developing Alternatives.....20%
- Components of Logic.....20%

ROUND TWO: The Problem and Presentation

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

Competitor Must Provide

- #2 pencils with eraser for test, evaluations & notetaking (Rd 2)
- Watch with second hand (optional-Round Two only)

CREATIVE PROBLEM SOLVING

ROUND TWO: Judge's Rating Sheet

Section # _____ Judge's Signature _____
 Team # _____ Division: SS _____ PS/C _____

A. Presentation Content	Excellent 15 points	Good 12 points	Average 9 points	Fair 6 points	Poor 0 points	JUDGE SCORE
1. Understanding of problem/health issue	Demonstrates clear evidence of a deep, insightful understanding of the problem or health issue.	Shows a solid grasp or understanding of the problem or health issue.	Demonstrates an average understanding of the problem or health issue. Judges left with a few questions	Shows a basic understanding of the problem or health issue. Judges left with more questions than answers.	Team is not able to demonstrate an understanding of the problem or health issue.	
2. An imaginative and innovative approach is used to solve the problem	The team provided creative, imaginative solution(s) that were highly innovative and thoughtful.	The solution was unique and offered a fresh approach to solving the problem. Missing the "wow" factor though.	The solution to the problem was adequately imaginative. Would like to see more innovation in the solution.	Solutions provided were unoriginal and little imagination was included in the presentation.	No evidence of imagination was used to solve the problem.	
3. Explanation of solution	Clear and concise explanation of the solution in a logical, well-constructed presentation.	The explanation of the solution was mostly clear and logical.	An average explanation of the solution was provided. Some aspects seem to be presented out of sequence.	The explanation of the solution did not flow and was hard to follow.	The explanation did not provide a logical solution and was fragmented.	
4. Applies previous knowledge and experience to current problem	Clear, thorough connection to prior knowledge and experiences were used to enhance the solution to the current problem.	Good examples of previous knowledge and experiences were applied to the solution of the current problem.	Some demonstration of prior knowledge and experiences were applied to the solution of the current problem.	Prior knowledge and experiences were not clearly demonstrated in correlation to the current problem.	No prior knowledge or experiences were connected to the current problem.	
	Excellent 10 points	Good 8 points	Average 6 points	Fair 4 points	Poor 0 points	JUDGE SCORE
5. Explanation of solution is financially sound	The solution is realistic and financially sound. The resources required to fund this solution are thoughtful and concise.	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.	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.	The solution provides questionable budget requirements and would require further attention to detail.	The solution is outside of budget constraints and is not recommended to move forward as presented.	
6. Use of the information provided in the secret topic.	The presentation offered clear and effective use of the information provided in the secret topic.	The information on the secret topic was mostly effective in the presentation but could have been clearer.	The presentation provided an average use of the information provided in the secret topic.	The presentation used a small amount of the information provided to teams on the secret topic.	The team did not include information provided on the secret topic.	
B. Presentation Delivery	Excellent 10 points	Good 8 points	Average 6 points	Fair 4 points	Poor 0 points	JUDGE SCORE

1. Voice Pitch, tempo, volume, quality	Each competitor's voice was loud enough to hear. The competitors varied rate & volume to enhance the speech. Appropriate pausing was employed.	Each competitor spoke loudly and clearly enough to be understood. The speakers varied rate OR volume to enhance the speech. Pauses were attempted.	Each competitor could be heard most of the time. The competitors attempted to use some variety in vocal quality, but not always successfully.	Judges had difficulty hearing /understanding much of the speech due to little variety in rate or volume.	The competitor's voice is too low or monotone. Judges struggled to stay focused during the majority of presentation.	
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 speakers 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 speaker'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.	
3. Diction*, Pronunciation** & Grammar	Delivery emphasizes and enhances message. Clear enunciation and pronunciation. No vocal fillers (ex: "ahs," "uh/ums," or "you-knows"). Tone heightened interest and complemented the verbal message.	Delivery helps to enhance message. Clear enunciation and pronunciation. Minimal vocal fillers (ex: "ahs," "uh/ums," or "you-knows"). Tone complemented the verbal message	Delivery adequate. Enunciation and pronunciation suitable. Noticeable verbal fillers (ex: "ahs," "uh/ums," or "you-knows") present. Tone seemed inconsistent at times.	Delivery quality minimal. Regular verbal fillers (ex: "ahs," "uh/ums," or "you-knows") present. Delivery problems cause disruption to message.	Many distracting errors in pronunciation and/or articulation. Monotone or inappropriate variation of vocal characteristics. Inconsistent with verbal message.	
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.	
Total Points (120):						

*Definition of Diction – Choice of words especially with regard to correctness, clearness, and effectiveness.

**Definition of Pronunciation – Act or manner of uttering officially