

# HOSA Creative Problem Solving Assessment Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. What is required for fostering creativity and innovation in an organization?**
  - A. Strict management oversight**
  - B. Supportive environment and organizational culture**
  - C. Limited communication among teams**
  - D. Standardized procedures only**
- 2. What is the first step of the Creative Problem Solving process model?**
  - A. Identifying the problem**
  - B. Analyzing the environment**
  - C. Generating alternatives**
  - D. Controlling the results**
- 3. According to Adair, what is the first step in effective decision-making?**
  - A. Generate feasible options**
  - B. Define the objective**
  - C. Implement and evaluate**
  - D. Collect relevant information**
- 4. Which phase of the Creative Problem Solving plan includes generating and testing ideas?**
  - A. Evaluation phase**
  - B. Information phase**
  - C. Ideation phase**
  - D. Implementation phase**
- 5. According to the mind mapping technique, what can be added to enhance visual understanding?**
  - A. Use of numbered lists**
  - B. Incorporating different colors for lines**
  - C. Adhering strictly to a single structure**
  - D. Summarizing final thoughts at the bottom**

- 6. Which of the following techniques is a form of brainstorming that looks for potential problems?**
- A. Inverse Brainstorming**
  - B. Fishbone Diagram**
  - C. Mind Mapping**
  - D. Attribute Listing**
- 7. Which traits are associated with left brain thinking?**
- A. Creativity and intuition**
  - B. Artistic expression and emotion**
  - C. Language, logic, and details**
  - D. Holistic processing and imagery**
- 8. Establishing idea sources for problem solving involves what kind of research?**
- A. Medical journals and case studies**
  - B. Magazines, movies, and art**
  - C. Surveys from previous clients**
  - D. Books on mathematical theories**
- 9. What is the purpose of experimentation in the problem-solving process?**
- A. Selecting alternatives for assessment**
  - B. Identifying driving forces for change**
  - C. Understanding fixed variables**
  - D. Considering interactions among variables**
- 10. The lobster pot model helps in what specific step of decision-making?**
- A. Defining the objective**
  - B. Implementing the decision**
  - C. Narrowing down choice options**
  - D. Generating options early**

## **Answers**

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1. B
2. A
3. B
4. C
5. B
6. A
7. C
8. B
9. D
10. C

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## **Explanations**

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**1. What is required for fostering creativity and innovation in an organization?**

- A. Strict management oversight
- B. Supportive environment and organizational culture**
- C. Limited communication among teams
- D. Standardized procedures only

Fostering creativity and innovation within an organization necessitates a supportive environment and a culture that encourages experimentation and open dialogue. When employees feel valued and safe to share their ideas, they are more likely to contribute innovative solutions and think creatively. A culture that embraces diversity of thought, allows for risk-taking, and provides resources for exploration can stimulate new ideas and drive engagement. In contrast, a strict management oversight can create a stifling atmosphere where employees may feel restricted and less inclined to propose novel ideas. Limited communication among teams can lead to silos, preventing the sharing of ideas and collaboration that are essential for innovation. Standardized procedures can help with efficiency but may also inhibit flexibility and adaptability, which are critical components of a creative process. Therefore, a supportive environment that cultivates an organizational culture of innovation is key to promoting creativity.

**2. What is the first step of the Creative Problem Solving process model?**

- A. Identifying the problem**
- B. Analyzing the environment
- C. Generating alternatives
- D. Controlling the results

The first step of the Creative Problem Solving process model is identifying the problem. This initial phase is crucial because it sets the foundation for the entire problem-solving journey. Without a clear understanding of the problem at hand, any subsequent steps taken—such as analyzing the environment or generating alternatives—may not effectively lead to a resolution. Identifying the problem involves recognizing what needs to be addressed and defining it in precise terms. It allows individuals or teams to focus their creative efforts on the right issue, rather than pursuing irrelevant or secondary concerns. By accurately identifying the problem, one can ensure that all subsequent steps are aligned with finding an appropriate solution, making the process both efficient and effective. In the broader context of the problem-solving model, it is critical to fully grasp the situation before diving into deeper analysis or brainstorming potential solutions. Skipping this step might lead to misdiagnosis of the problem, which can result in wasted resources and time.

**3. According to Adair, what is the first step in effective decision-making?**

- A. Generate feasible options**
- B. Define the objective**
- C. Implement and evaluate**
- D. Collect relevant information**

The first step in effective decision-making, according to Adair, is to define the objective. This step is crucial because it establishes a clear understanding of what you are trying to achieve. By clearly outlining the goal, one can ensure that the decision-making process remains focused and aligned with desired outcomes. When the objective is defined, it sets the stage for subsequent actions such as generating feasible options and collecting relevant information, as the criteria for evaluation will be based on how well those options fulfill the defined objective. Defining the objective aids in narrowing down choices and making informed decisions that lead to successful implementation and evaluation later in the process.

**4. Which phase of the Creative Problem Solving plan includes generating and testing ideas?**

- A. Evaluation phase**
- B. Information phase**
- C. Ideation phase**
- D. Implementation phase**

The ideation phase is where generating and testing ideas takes place. This phase encourages brainstorming and free-flowing creativity, allowing participants to think outside the box and propose various potential solutions to the problem at hand. It's a critical step in the Creative Problem Solving process, as the focus is on quantity over quality initially, with the goal of exploring a wide range of possibilities. Once a plethora of ideas has been generated, participants can then move into testing those ideas to assess their feasibility, effectiveness, and how well they address the original problem. This iterative process of generation and testing aligns directly with the goals of the ideation phase, making it the correct choice for the question. The other phases focus on different aspects of the problem-solving process: the evaluation phase is concerned with assessing and refining ideas after they've been generated, the information phase involves gathering necessary data and insights before ideation takes place, and the implementation phase is about executing the chosen solution once it has been defined and refined.

**5. According to the mind mapping technique, what can be added to enhance visual understanding?**

- A. Use of numbered lists**
- B. Incorporating different colors for lines**
- C. Adhering strictly to a single structure**
- D. Summarizing final thoughts at the bottom**

Incorporating different colors for lines in mind mapping significantly enhances visual understanding because the use of color can help to organize information, distinguish between different ideas, and highlight relationships among concepts. Colors can serve as a visual cue that guides the viewer's attention to particular branches of the mind map, making it easier to navigate complex information. By associating specific colors with specific themes or categories, individuals can quickly grasp the structure of the information and make connections more intuitively. Numbers or strict adherence to a single structure may limit creativity and flexibility, and summarizing final thoughts does not directly contribute to the visual mapping process itself. Therefore, utilizing colors is a key strategy in mind mapping that promotes clarity and facilitates comprehension.

**6. Which of the following techniques is a form of brainstorming that looks for potential problems?**

- A. Inverse Brainstorming**
- B. Fishbone Diagram**
- C. Mind Mapping**
- D. Attribute Listing**

Inverse brainstorming is particularly effective for identifying potential problems because it encourages participants to focus on what could go wrong or what factors could hinder success. In this method, instead of asking how to achieve a goal, the group explores how to cause the opposite effect or generate obstacles. This shift in perspective not only reveals hidden issues but also encourages creative thinking about potential risks, thus fostering a comprehensive understanding of challenges that may arise in a project or initiative. In contrast, the other techniques listed serve different purposes. A fishbone diagram is primarily used for root cause analysis, helping to visually map out the various causes of a specific problem rather than generating potential problems. Mind mapping is a creative tool to organize thoughts and ideas around a central concept but does not specifically target the identification of problems. Attribute listing focuses on breaking down aspects of products or ideas into their attributes, which can be useful for enhancing or improving something rather than exploring potential problems. Therefore, inverse brainstorming stands out as the method dedicated to uncovering potential challenges in a proactive manner.

## 7. Which traits are associated with left brain thinking?

- A. Creativity and intuition
- B. Artistic expression and emotion
- C. Language, logic, and details**
- D. Holistic processing and imagery

The traits associated with left brain thinking include language, logic, and details. Left brain thinking is often characterized by a more analytical and methodical approach. Individuals who lean towards left-brain dominance tend to excel in tasks that involve verbal skills, such as reading and writing, as well as mathematical reasoning and problem-solving tasks that require attention to detail and organized thought. This brain hemisphere is also known for its ability to approach problems sequentially, emphasizing logic and structured analysis. In contrast, the other traits mentioned, such as creativity, artistic expression, and holistic processing, are more closely associated with right brain thinking, which is thought to encompass more intuitive, imaginative, and emotional processing styles. Understanding the distinct functions of each hemisphere helps clarify why language, logic, and details are rightly attributed to left brain thinking.

## 8. Establishing idea sources for problem solving involves what kind of research?

- A. Medical journals and case studies
- B. Magazines, movies, and art**
- C. Surveys from previous clients
- D. Books on mathematical theories

The identification of idea sources for problem solving is fundamentally tied to the creative exploration of various perspectives and approaches. This makes engaging with cultural and creative content, such as magazines, movies, and art, particularly relevant. These mediums often represent diverse ideas, experiences, and narratives that can inspire innovative thinking. Magazines can provide a broad spectrum of topics, showcasing current trends, opinions, and case studies that illustrate real-world applications and challenges. Movies can evoke emotional responses, provoke thought, and illustrate complex problems, offering narratives that can spark new solutions. Art, in its many forms, stimulates creativity and can shift perspectives, making it a significant resource for problem-solving discussions. In contrast, the other options focus on more specific or technical types of research that may not foster the same level of creative exploration. Medical journals and case studies, while crucial for evidence-based decision-making in healthcare, may not engage the broader creative thinking essential for developing innovative solutions. Surveys from previous clients can provide valuable feedback, but they are limited to past experiences and may not encourage fresh or imaginative ideas. Books on mathematical theories could enhance analytical skills, yet they may not encourage the creative thought process necessary for generating diverse solutions to complex problems.

**9. What is the purpose of experimentation in the problem-solving process?**

- A. Selecting alternatives for assessment**
- B. Identifying driving forces for change**
- C. Understanding fixed variables**
- D. Considering interactions among variables**

The purpose of experimentation in the problem-solving process is centered around considering interactions among variables. In a complex situation, various factors can influence outcomes, and experimentation allows individuals to manipulate variables to observe how changes in one aspect can affect others. This understanding is crucial for developing effective solutions, as it helps identify which factors need to be adjusted to achieve desired results. By conducting experiments, problem solvers can gather data that reveal relationships and dependencies between variables, leading to a deeper insight into the problem at hand. This process ensures that solutions are not only effective but also sustainable, as it takes into account the dynamics of the situation. The other options focus on distinct aspects of problem-solving but do not capture the essence of experimentation as fully as understanding variable interactions does. For instance, while selecting alternatives for assessment and identifying driving forces for change are key steps in the problem-solving process, they do not specifically highlight the interactive nature of variables, which is central to experimentation. Understanding fixed variables, similarly, does not address the experimental process as it overlooks the variability and relationships critical to finding innovative solutions.

**10. The lobster pot model helps in what specific step of decision-making?**

- A. Defining the objective**
- B. Implementing the decision**
- C. Narrowing down choice options**
- D. Generating options early**

The lobster pot model is particularly effective in narrowing down choice options during the decision-making process. This model helps individuals visualize and filter their options by gradually eliminating less viable choices, much like how a lobster pot traps lobsters while allowing them to be selectively chosen based on certain criteria. By focusing on this narrowing strategy, decision-makers can hone in on the most relevant alternatives, ensuring that they concentrate on the options that are most aligned with the goals and objectives they have set out to achieve. This step is critical, as it simplifies the decision-making process and increases the likelihood of selecting a favorable outcome by reducing the overwhelming number of possibilities into a more manageable set.