

Project Judge Certification Questions

1. Which best describes the Project as outlined in the Challenge document?
 - a. Requirements. All teams must complete every step in the entire Project document in order to be eligible for awards.
 - b. Guidelines. Teams must complete only the steps that are specifically stated as requirements to be eligible for awards. The remainder of the text helps guide their research.
 - c. Helpful suggestions. Teams who are inspired to complete their project without following the required steps in the project document are still eligible for awards.
 - d. Optional reading. Teams who do not read or follow the project document are eligible for awards.

2. What should you do when a team is distracted, frequently pauses during their Project Presentation, often looks at their coach for assistance, and has difficulty answering questions?
 - a. Mark the team lower in Presentation Effectiveness
 - b. Provide a constructive suggestion to encourage the team to practice their presentation to become more confident presenting.
 - c. Ask additional questions about who worked on which parts of the project to determine whether there was too much adult involvement.
 - d. All of the above.

3. True or false?: If a team does not identify the problem they studied, did not come up with a solution, or did not share their work, they are not eligible for Project awards consideration.
 - a. True
 - b. False

4. True or False?: A PowerPoint presentation is considered the standard method for teams to present their Project.
 - a. True
 - b. False

5. A team who consulted multiple researchers working in the field related to their solution should be marked at what level in the Sources of Information category on the rubric?

Sources of Information				
Quality and variety of data/evidence and sources cited				
N	minimal quality; variety limited	quality OR variety need improvement; did not include professional(s)	sufficient quality and variety; included professional(s)	extensive quality and variety; included multiple professionals
D				

- a. Beginning
- b. Developing
- c. Accomplished
- d. Exemplary

6. A team whose Project solution already exists in the same way the team presents it should be marked as “Beginning” in what category on the rubric?

Innovation				
Degree to which the team’s solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way.				
N	existing solution/application	solution/application contains some original element(s)	original solution/application; potential added value	original solution/application; demonstrated added value
D				

Problem Analysis				
Depth to which the problem was studied and analyzed by the team, including extent of analysis of existing solutions				
N	minimal study; no analysis	minimal study; some analysis	sufficient study and analysis	extensive study and analysis
D				

Creativity				
Imagination used to develop and deliver the presentation				
N	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative
D				

Solution Development				
Systematic process used to select, develop, evaluate, test, and improve the solution (Implementation could include cost, ease of manufacturing, etc.)				
N	process AND explanation need improvement	process OR explanation need improvement	systematic process included evaluation	systematic process included evaluation; implementation considered
D				

- a. Innovation
- b. Problem Analysis
- c. Creativity
- d. Solution Development

7. If a team leaves you confused about what problem the team’s solution addressed and unsure how they shared their solution, the best way to reflect this on the rubric is by marking them at what level in the Presentation Effectiveness category?

Presentation Effectiveness				
Message delivery and organization of the presentation				
N	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized
D				

- a. Beginning

- b. Developing
 - c. Accomplished
 - d. Exemplary
8. A team that did some analysis of the problem they selected, but does not know if anyone has already developed a solution similar to theirs, should be marked as “Developing” in what category on the rubric?

Innovation		Degree to which the team's solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way.		
N D	existing solution/application	solution/application contains some original element(s)	original solution/application; potential added value	original solution/application; demonstrated added value
Team Solution*		Clear explanation of the proposed solution and description of how it solves the problem		
N D	difficult to understand	some parts confusing	understandable	easy to understand by all
Problem Analysis		Depth to which the problem was studied and analyzed by the team, including extent of analysis of existing solutions		
N D	minimal study; no analysis	minimal study; some analysis	sufficient study and analysis	extensive study and analysis
Sources of Information		Quality and variety of data/evidence and sources cited		
N D	minimal quality; variety limited	quality OR variety need improvement; did not include professional(s)	sufficient quality and variety; included professional(s)	extensive quality and variety; included multiple professionals

- a. Innovation
 - b. Team Solution
 - c. Problem Analysis
 - d. Sources of Information
9. Which team is the best candidate to receive the Research Award?
- a. Team A identified their topic after a team member’s sister experienced the problem. The team asked their parents for more information about the subject, and then chose to adapt an existing solution to more effectively solve the issue.
 - b. Team B chose their topic after speaking with someone in their community who had experienced the problem first hand. They learned more about the issue from a professional in the field, looked it up on the Internet, watched a video about it, read several magazine and newspaper articles, and read an academic journal article about existing solutions.
 - c. Team C chose their topic after watching a TV news story on the issue. They read about the issue in several Wikipedia articles and spoke to a college professor on a related subject. The team is not sure whether a similar solution was created before they came up with it.

- d. Team D asked their parents for topic ideas and chose one of the suggestions. The team each read a book that addressed the subject before brainstorming solutions that they already knew existed.
10. A team does not provide any information about how they shared their Project. What is the best practice for evaluating the team on the rubric for that category?
- a. During the judging session, ask the team about the missing information and mark the rubric appropriately based on their answers, and if the team still does not provide information, mark “ND” on the rubric for not demonstrated.
 - b. After the judging session, mark the “Beginning” box on the rubric, since the team has not shown a higher level of accomplishment in that area
 - c. After the judging session, mark the “ND” box on the rubric, since the team has not demonstrated anything in that category
 - d. After the judging session, find the team and ask them to provide more information about how they shared their Project and adjust your rubric evaluation accordingly.
11. What is the best way to re-word a comment on a rubric that says, “Your proposed Project solution won’t work.”?
- a. Your explanation of your solution was difficult to understand.
 - b. Your solution is creative! Next year, consider planning your solution development process in advance so you can test to see if your solution will work.
 - c. Your solution wasn’t innovative and would likely not make life better.
 - d. Your team did not do sufficient study of the problem and therefore has no foundation for its solution.
12. What is the best way to re-word a comment on a rubric that says, “Your Project was off-topic.”?
- a. Your team’s research was irrelevant.
 - b. You missed an instruction listed in the Challenge that will significantly impact the team’s ranking for awards.
 - c. Your team did an excellent job presenting and interacting with judges, however, you did not demonstrate that you met following Challenge requirements: *(List the Project requirements not completed by the team.)*
 - d. Make sure you read the Challenge so you know your problem is allowed next time.
13. Which rubric category asks teams to think about the processes they used to create and test their solution?

Problem Identification * Clear definition of the problem being studied				
N	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed
D				
Team Solution * Clear explanation of the proposed solution and description of how it solves the problem				
N	difficult to understand	some parts confusing	understandable	easy to understand by all
D				
Creativity Imagination used to develop and deliver the presentation				
N	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative
D				
Solution Development Systematic process used to select, develop, evaluate, test, and improve the solution (Implementation could include cost, ease of manufacturing, etc.)				
N	process AND explanation need improvement	process OR explanation need improvement	systematic process included evaluation	systematic process included evaluation; implementation considered
D				

- a) Problem Identification
- b) Team Solution
- c) Creativity
- d) Solution Development