

Team Assignment 1: Evaluate a Rubric

INSTRUCTIONS:

- Respond to the sample question shown on the front of this handout
 - Swap papers with at least two of your teammates and score responses using the criteria and rubric provided on the back of this page
 - With your teammates, discuss:
 - What did you like about this rubric?
 - What might you change?
 - Did you feel the rubric was valid and reliable?
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Short-Answer Test Item on Communication

Adapted from the TIDEE ENTERING-JUNIOR DESIGN KNOWLEDGE ASSESSMENT Instrument

OBJECTIVE: Demonstrate your knowledge of key elements in the engineering design process, teamwork, and communication associated with team-based engineering design.

ASSIGNMENT: *Respond to the following question/statement. You have 5 minutes.*

In team-based design, documentation and exchange of design information are important. Describe communication qualities and how communication occurred among team members in a design project assignment.

Criteria Elements: Knowledge of Effective Communication

Five specific elements to be articulated by students.

1. Structure (i.e. organization, highly understandable, flow of thoughts)
2. Content (i.e. details, key points, clarity of ideas, complete and accurate information)
3. Relevance to audience (i.e. communicated well and understandable to audience)
4. Team attitude (i.e. co-operation, listening)
5. Involvement (i.e. planning meetings, effective interaction between members)

Scoring Rubric

5 Points--- Student's response shows detailed knowledge of the listed elements of effective communication if it includes 5 of 5 elements.

4 Points --- Student's response shows above moderate knowledge, if it includes 4 elements of the effective communication.

3 Points--- Student's response shows moderate knowledge of the subject if it includes 3 elements of the effective communication .

2 Points--- Student's response shows little knowledge of the subject if it includes 2 elements of the effective communication criteria.

1 Point--- Student's response shows little knowledge of effective communication if only one element is indicated.

0 Points--- Student's response shows no knowledge about effective communication in a team-based design project

Note: The body of the rubric provides the scale of 0-5 points with benchmarks at 0,1,2,3,4 and 5. However, the students were also scored at half values (I.e., 2.5, 3.5) to provide more sensitive distinction between performance levels. A score of 5+ was given to very well articulated, comprehensive type responses