




CONSTRUCTION CHALLENGE

 Your chapter's community project can be showcased here if it is construction related. Entries might include well-placed park benches, repair of playground equipment, etc.

OVERVIEW

Participants submit a scale model/prototype with a portfolio that documents the use of their leadership and technical skills to fulfill an identified community need related to construction. Semifinalists discuss their projects in a presentation and an interview.

ELIGIBILITY

Participants are limited to one (1) team per chapter. There is a limit of two to four (2-4) representatives per team for the semifinalist presentation and interview.

TIME LIMITS

- A. The project must have been in progress or completed during the current school year.
- B. Students who represent their chapter as semifinalists have a maximum of ten (10) minutes to present and discuss their chapter's participation in a project and to answer the evaluators' questions.

ATTIRE

TSA competition attire, as described in the National TSA Dress Code section of this guide, is required.

PROCEDURE

- A. Participants check in their entries at the time and place stated in the conference program. No more than two (2) team members set up a scale model/prototype and portfolio.
- B. Entries are reviewed by evaluators. Neither students nor advisors are present at this time. A semifinalist list in random order is posted.
- C. A representative from each semifinalist team will report at the time and location stated in the conference program to schedule a presentation/interview time.
- D. Two to four (2-4) representatives from each team meet with the event coordinator and evaluators at the designated time to

make a brief presentation, discuss their chapter's community project, and answer the questions of the evaluators.

- E. Participants pick up their entries from the display area at the time specified in the conference program.

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA general rules and competitive event guidelines. This information is found on the website under Competitions/ Competition Updates. When students participate in any TSA competitive event, they are responsible for knowing of all updates, changes, and clarifications related to that event.

REGULATIONS

- A. Chapters document project involvement with the community through the use of a project journal (that provides in detail both student and community involvement), letters, interviews, pictures, newspaper clippings, or other such evidence.
- B. Chapters must become involved in the majority of stages of development of the project, from planning to construction (where appropriate), by experiencing as many facets of the undertaking as possible. The project must show work performed during the current school year. The history of long-term or ongoing projects that began in a previous year or that will continue beyond the current school year may be included with the documentation; however, the scale model/prototype and portfolio must be based on current year activities.
- C. The chapter should address the impact of the construction project on the community. "Community" is defined as within an area near the school.
- D. Documentation materials (comprising a "portfolio") are required and should be secured in a clear front report cover. (Click [here](#) for a sample.) The report cover must include the following single-sided, 8½" x 11 pages, in this order:
 - 1. Title page with the event title, the conference city and state, the year, and the team/chapter ID number; one (1) page
 - 2. Table of contents
 - 3. Plan of Work log that indicates preparation for the event, as noted by date, task, time involved, team member responsible and comments (see Plan of Work log); pages as needed
 - 4. Photo timeline of project photos (before, during, and after the project), with dates and team members involved.

5. Letters from community members that verify chapter involvement, pictures of the project, news clippings, and other relevant materials; pages as needed
 6. Research provided on the community need for the project.
 7. Strategies and recommendations of the team that will address the community need; up to three (3) examples.
- E. If the entry (scale model/prototype or portfolio) contains images of people, proof of consent must be provided. Minors require parental consent. (See Photo/Film/Video Consent and Release form that follows.) The forms do not count in the page limits identified in Regulation D.
- F. The materials that make up the scale model/prototype must be student-constructed and assembled. The display may occupy a space no more than 15" deep x 3' wide x 4' high.
- G. A/C electricity may not be used.
- H. The chapter name or other identifying information may appear in the entry (only in newspaper clippings, photographs, etc.); identifying information must not be placed on the scale model/prototype, or in the portfolio for the purpose of revealing the TSA chapter.

EVALUATION

Participants are evaluated on their involvement in a community project; semifinalists are awarded points based on their presentation and interview. Please refer to the official rating form for more information.

STEM INTEGRATION

This event has connections to the STEM areas noted below.
Please refer to the STEM INTEGRATION section of this guide.

Science, Technology, Engineering, Mathematics

COMMON CORE STATE STANDARDS (CCSS) INTEGRATION

Please refer to the Common Core State Standards (CCSS) Integration section of this guide for more information.

LEADERSHIP SKILLS

Leadership skills promoted in this event:

- Organization: Students organize, plan, and execute the project while keeping accurate records and details. Use leadership activities: *Keep on Rolling* and *Time It*
- Problem solving: Students identify, plan, coordinate, and carry out a project that will benefit the community; they deal with possible issues that may occur. Use leadership activities: *Finding a Way* and *Implementation Ideas*.
- Teamwork: Students work as a team to accomplish a large project to benefit the community. Use leadership activities: *Bozo's Balloons* and *TV Station*

Additional leadership skills promoted in this event:

- Creative thinking
- Decision making
- Evaluation

TSA AND CAREERS

This competition has connections to one or more of the career areas featured in the TSA AND CAREERS section of this guide. Use *The 16 Career Clusters* chart and the *TSA Competitions and Career Clusters* grid as resources for information about careers.

CAREERS RELATED TO THIS EVENT

- Architect
- Community planner
- Construction manager
- General contractor
- Product designer



TECHNOLOGY STUDENT ASSOCIATION PLAN OF WORK

Date	Task	Time involved	Team member responsible	Comments
1				
2				
3				
4				
5				
6				
Advisor signature _____				



PHOTO/FILM/VIDEO CONSENT AND RELEASE

I hereby give permission for images of my child or myself (as applicable), captured during Technology Student Association (TSA) activities through film, photo or digital camera, to be used solely for the purposes of TSA promotional materials and publications, and I waive any rights of compensation or ownership thereto.

Name of minor in images (please print)

Name of minor's parent/guardian (please print)

Name of adult in images (please print)

Parent/guardian or adult's signature (as applicable)

Date

CONSTRUCTION CHALLENGE EVENT COORDINATOR INSTRUCTIONS

PERSONNEL

- A. Event coordinator
- B. Evaluators, two (2) or more
- C. Individuals assigned to check in, receive entries, and direct students to the display set-up area, two (2) or more
- D. Individual assigned for security during the set-up time

MATERIALS

- A. Coordinator's packet, containing:
 - 1. Event guidelines, one (1) copy for the coordinator and each evaluator
 - 2. TSA Event Coordinator Report
 - 3. List of evaluators/assistants
 - 4. Stick-on labels for identifying entries
 - 5. Results envelope with coordinator forms
- B. Display tables for entries (needed at set-up time through pick-up time prior to the close of the conference)
- C. Stopwatch to monitor semifinalist presentations and interviews
- D. Tables and chairs for event coordinator and evaluators

RESPONSIBILITIES

- A. Upon arrival at the conference, report to the CRC room and check the contents of the coordinator's packet. Review the event guidelines and check to see that enough evaluators/assistants have been scheduled.
- B. Inspect the area or room in which the event is to be held for appropriate set-up, including room size, chairs, tables, outlets, etc. Notify the event manager of any potential problems.
- C. Check in the entries at the time stated in the conference program. Anyone reporting who is not on the entry list may check in only after official notification is received from the CRC. Late entries are considered on a case-by-case basis and only when the lateness is caused by events beyond the participant's control. Requirements for attire do NOT apply during check-in. Secure the entries in the designated area.

- D. Review the time limits, procedures, and regulations with the evaluators. Clear up any questions or misunderstandings.
- E. Evaluators independently review the entries.
- F. For participants who violate the rules, the decision either to
 - 1) deduct twenty percent (20%) of the total possible points or
 - 2) disqualify the entry, must be discussed and verified with the evaluators, event coordinator, and CRC manager, who all must initial either of these actions on the rating form.
- G. Evaluators determine semifinalists and discuss and break any ties.
- H. Submit semifinalist results to CRC for posting.
- I. Conduct interviews using the same official rating forms.
- J. Evaluators determine the ten (10) finalists. Evaluators discuss and break any ties that affect the top three (3) placements.
- K. Submit the finalist results and all related forms in the results envelope to the CRC room.
- L. If necessary, manage security and the removal of materials from the event area.



Participant/Team ID# _____

CONSTRUCTION CHALLENGE**2016 & 2017 OFFICIAL RATING FORM****MIDDLE SCHOOL****Display (40 points)**

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Evaluators: Using minimal (1-4 points), adequate (5-8 points), or exemplary (9-10 points) performance levels as a guideline, record the scores earned for the event criteria in the column spaces to the right. The X1 or X2 notation in the criteria column is a multiplier factor for determining the points earned. (Example: an "adequate" score of 7 for an X1 criterion = 7 points; an "adequate" score of 7 for an X2 criterion = 14 points.)			
Overall aesthetics (X2)	Model/prototype is sloppy and does not represent the project.	Model/prototype has some design flaws, but it represents the project.	Model/prototype has a high quality of craftsmanship and clearly depicts the project.
Identification of community need and community impact (X1)	Identification of the community need and impact lacks clarity; wordy, illogical, unorganized viewpoints are included.	Identification of the community need and impact is generally organized, with mostly logical viewpoints and concisely written information.	Clear and concise identification of the community need and impact is evident, with logical viewpoints related to the need.
Strategies and recommendations (X1)	Two or fewer strategies/recommendations are presented; they are not well-connected to the community need identification.	Two or more strategies/recommendations are presented; some are connected to the research collected.	Three or more strategies/recommendations are presented, all of which are connected to the research that was collected and analyzed.

SUBTOTAL (40 points)**Portfolio (30 points)**

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Portfolio contents See Regulation D (X1)	Portfolio is unorganized and/or is missing three components.	Portfolio is generally organized but is missing two components.	Portfolio content and organization are clearly evident; one or no components may be missing.
Project verification (X1)	Little or no student involvement is evident in the project; work is unorganized and/or sloppy.	Community letters, photos, and/or news clippings documenting student involvement in the project are included in the portfolio.	A well-organized and thorough documentation of student involvement, from inception to completion of the project, is included in the portfolio.
Photo timeline (X1)	Photo timeline is sloppy and/or unorganized and hard to read and understand; key dates are missing; the project appears to be an afterthought.	Photo timeline is formatted in a somewhat organized manner and is generally easy to read/interpret; it includes most key dates.	Photo timeline has all key dates listed from inception to completion; a creative and organized timeline is evident.

SUBTOTAL (30 points)

Rules violations (a deduction of 20% of the total possible points for the above sections) must be initialed by the evaluator, coordinator, and manager of the event. Record the deduction in the space to the right.

Indicate the rule violated: _____

Record scores in the column spaces below.

Semifinalist Presentation/Interview (50 points)				
CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points	
Organization (X1)	Participants seem unorganized and unprepared for the presentation/interview; an illogical explanation of the need and solution is presented.	Participants are generally prepared for the presentation/interview; a general and organized explanation of the need and solution are communicated.	Presentation/interview is logical, well organized, and easy to follow; the need and solution are communicated in an organized and concise manner.	
Knowledge (X2)	Participants seem to have little understanding of the concepts in their project; answers to questions may be vague.	Participants exhibit an understanding of the concepts in their project.	Participants show clear evidence of a thorough understanding of the project.	
Delivery (X1)	Team is verbose and/or uncertain in its presentation/interview; participants' posture, gestures, and lack of eye contact diminish the presentation/interview.	Team is somewhat well-spoken and clear in its presentation/interview; participants' posture, gestures, and eye contact are adequately polished.	Team is well-spoken and distinct; participants' posture, gestures, and eye contact result in a polished, natural, and effective presentation/interview.	
Team participation (X1)	The majority of the delivery is made by one member of the team; the partner(s) may be disengaged from the presentation/interview.	Team members generally are engaged in the presentation/interview, though one member may take on more responsibility than the other(s).	All team members are actively involved in the presentation/interview and responses to questions; there is shared responsibility between team members.	
SUBTOTAL (50 points)				

Rules violations (a deduction of 20% of the total possible points for the semifinalist section) must be initiated by the evaluator, coordinator and manager of the event. Record the deduction in the space to the right.

Indicate the rule violated: _____

(To arrive at the TOTAL score, add any subtotals and subtract rules violation points, as necessary.)

TOTAL (120 points)

Comments:

I certify these results to be true and accurate to the best of my knowledge.

Evaluator

Printed name: _____

Signature: _____