



PA Only Events

last revised: November 11, 2006

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Safety Illustration Hand Drawn
Stencil Logo Design

B/W PHOTOGRAPHY CONTEST

Middle School
revised: unknown

THEME: See Back to School Mailing Theme list

I. PURPOSE

- A. The PA-TSA Photography Contest is designed to afford TSA members an opportunity to demonstrate their skills in the field of Photography.

II. TIME LIMITATIONS

- A. All contest entries must be submitted when the student registers for the TSA Conference. No entries will be received after registration is completed.
- B. All entries must have been taken within the current TSA year.

III. SPECIFIC REGULATIONS

- A. Each contestant may submit one (1) photograph for judging in each of the following categories. **All photographs must be taken and processed by the contestant.**
- B. All Black and White Photographs **MUST** be enlarged to a minimum of 5" x 7" and a maximum of 8" x 10". Borders should be cut off when mounted.
- C. All photographs **MUST** be mounted on an 11" x 14" plain white board (mat, illustration, etc.). No window mounts will be accepted.
- D. An entry form/data sheet **MUST** be taped or glued to the back of **EACH** print. The information must be printed or typed.
- E. **EACH** recognizable person in a photograph **MUST** sign a separate consent form. These forms must be taped or glued to the back of **EACH** photograph.
- F. All winning entries and their negatives **MAY** become the property of TSA for one (1) year.
- G. All negatives **MUST** be taped or glued to the back of the mat board.

IV. PROCEDURE

- A. All contestants for this event **MUST** register with Contest Coordinator at the time and location indicated in the Conference Program.
- B. Entry number and level **MUST** be taped or glued to the back of the mat board.

V. REQUIRED CONTEST PERSONNEL AND EQUIPMENT

- A. Contest Coordinator
- B. One person to register and collect entries
- C. Three judges
- D. Secure room with facilities for displaying photographs

VI. CRITERIA FOR JUDGING

- A. Contestants shall be ranked in numerical order on the basis of final score to be determined by each judge without consultation with each other. The winner will be that contestant whose total score is the highest. Other placing shall be determined in the same manner. In case of a tie, judges shall consult each other to ascertain the winner.
- B. Ratings shall be based upon the following:
 - 1. **45 points** - Composition
 - 1. Originality
 - 2. Theme Interpretation
 - 3. Composition rules evident
 - 2. **45 points** - Technical Quality
 - 1. Contrast and Lighting
 - 2. Sharpness

3. Print Quality (scratches, dust, spotting)
 3. **10 points** - Finishing
 1. Mounting
 2. Trimming
- C. Contest Coordinator will provide a sealed packet to the Competitive Coordinator containing the results.
- D. All judges' rating and results are to remain confidential.
- E. Preliminary Qualification of Photographs
 1. **QUALIFICATIONS: YES NO**
 2. Does the photograph meet the size requirements? _____
 3. Is the mount board 11" x 14"? _____
 4. Is the mount board white? _____
 5. Is the data sheet properly completed and taped or glued to the back? _____
 6. Are the consent forms included and taped or glued to the back? _____
 7. Is the negative taped or glued to the back of the mat board? _____
 8. **NOTE: IF THERE ARE ANY "NO" ITEMS, THE PHOTO IS DISQUALIFIED.**

B/W PHOTOGRAPHY CONTEST - SPECIFICATION SHEET

ENTRY NUMBER: _____

TITLE: _____

FILM TYPE: _____
DEVELOPER: _____
PHOTO PAPER: _____
DEVELOPER: _____

NAME: _____

SCHOOL: _____

I _____ certify that this is my original work.
Date: _____

I understand that unless all requirement are met the entry will be disqualified
CUT HERE AND FOLD UP TO COVER THE NAME

TSA PHOTOGRAPHY CONSENT FORM

TITLE OF THE PHOTOGRAPH: _____
Date: _____

The photograph of me taken by _____
may be entered for judging in the TSA Photography Contest. I give my consent that the
photograph may be used by the TSA sponsors for publication or display.

(signature of witness)

(signature of subject)
(if under 21, signature of guardian)

(street address, city, zip)

(street address, city, zip)

**Each recognizable person in the photograph must sign a consent form.
These forms must be submitted with the entry.**

COMPUTER-AIDED DRAFTING/DESIGN

Middle School
revised: unknown

Overview: To provide students with an opportunity to compete in the emerging area of CADD technology.

I. PURPOSE

- a. The purpose of the TSA CADD competition is to provide students the opportunity to demonstrate their abilities with Computer-Aided Design/Drafting (CADD). The event is designed to test, in a live setting, the CADD skills as they apply to mechanical/architectural design and drafting.

II. ELIGIBILITY FOR ENTRY

- a. It is the responsibility of the chapter advisor to submit entries by the deadline.
- b. Entries are limited to one representative in each of the following categories:
 - i. General CADD Design I
- c. See "General Rules" for additional information.

III. TIME LIMITATIONS

- a. Middle School CADD competition will be a maximum of three (3) hours.

IV. SPECIFIC REGULATIONS

- a. The participants will need to provide their own systems including hardware, software, plotter/printer, plotting paper, sketch paper, two (2) blank diskettes, power strip, and grounded 50' extension cord.
- b. Prior to the event, a workstation space will be assigned to each participant.
- c. All CADD participants must check in during the designated time at the event area. Each participant will verify their system configuration at this time.
- d. Each participant will work independently, without assistance from Event Evaluators, teachers, fellow students, or observers.
- e. Participants will be provided with a drawing problem.
- f. All participants will power up systems when the signal to begin is given.
- g. Participants may use only their conference identification number as the means of drawing identification. Participants must place their ID number on the event "drawing disk" and in the title block of the drawing, and save their drawing using ID number as a file name. See attachment for title block and border specifications.
- h. When the participant completes the event drawing, or event time elapses, the drawing must be stored on the workstation's hard disk if applicable. All materials must be placed inside participant packet and returned to Event Coordinator.
- i. Participants will not be permitted to leave the event room without permission from the Event Coordinator.
- j. During the event, the participant should save drawing to disk and/or hard drive every 15 minutes.

COMPUTER-AIDED DRAFTING/DESIGN

EVENT COORDINATOR INSTRUCTION SHEET

Middle School
revised: unknown

I. CONTENTS

- A. Official Rating Form
- B. Event guidelines for the coordinator and the Event Evaluators
- C. Curricular Events Personnel and Participant/Team Entry List
- D. Results envelope

II. REQUIRED MATERIALS AND SUPPLIES

- A. Personnel
 - 1. Event Coordinator
 - 2. Event Evaluators: three (3) for middle school
 - 3. Assistants: three (3)
- B. Equipment/Supplies
 - 1. Event Guidelines: (10)
 - 2. Problem: (50) copies
 - 3. Pens for Event Evaluators
 - 4. Official Rating Form
 - 5. Tables and chairs for participants
 - 6. Tables and chairs for Event Evaluators
 - 7. List of entries

III. PROCEDURES

- A. Check the contents of the coordinator's envelope.
- B. Review the event limitations, regulations and procedures.
- C. Distribute the Event Evaluators' materials.
- D. Review the limitations, regulations, and procedures with the Event Evaluators. Clear up any questions or misunderstandings.
- E. Collect diskettes and drawings for viewing by Event Evaluators and assist during evaluation.
- F. Secure the Event Evaluators' signature on their rating sheets.
- G. Select one evaluator to assist in completing the summary sheet.
- H. Secure the initials of all event Evaluators on the curricular event summary sheet after they have all reviewed it. Through the discussion process, the Event Evaluators shall break any ties that affect the top three (3) placements.
- I. Designate helpers to escort participants to restroom.
- J. Using the results envelope provided, submit to the Curricular Resource Committee Manager's Area:
 - 1. Curricular Events Personnel and Participant/Team Entry List.
 - 2. Official Rating Form
- K. The Event Coordinator will manage the security and removal of materials from event area.

PLEASE IDENTIFY THE EVENT AND THE LEVEL ON THE FRONT OF THE RESULTS ENVELOPE AND SEAL IT BEFORE RETURNING IT.

COMPUTER SYSTEM AND TROUBLESHOOTING

High School
revised: January 2005

Overview: Participants complete a written examination covering personal computer technology for the entry-level computer service technician. The teams with top ten average scores on the written test qualify for a hands-on component in which teams perform some PC system assembly, isolate hardware and software faults, and deal with customer service issues.

I. Purpose

- A. Demonstrate the ability in solving technical challenges related to PC operating systems, customer service, and troubleshooting faults in a “real-world” environment.

II. Eligibility

- A. Entries are limited to two teams of two members per chapter.

III. Time Limits

- A. Forty-five (45) minutes are allowed for the written test.
- B. Two (2) hours are allowed for completing the computer construction tasks, for identifying the PC component faults, and for solving issues related to a customer service call.

IV. Attire

- A. Casual dress as described in Competitive Events Attire is the minimum requirement.

V. Procedure

- A. Participants report to the test area at the time and place stated in the conference program.
- B. All team members individually take the written test.
- C. The average test score for each participating team is used to determine the ten (10) finalist teams that advance to the hands-on troubleshooting portion of the event. A finalist list is posted in random order.
- D. Finalist teams report to the event area at the time and place stated in the conference program.
- E. Each team is assigned one of the work stations.
- F. A logbook with numbered sections that coincide with the hands-on tasks is provided to each team. Logbooks are identified by each team’s conference identification number only.
- G. At the signal to begin, teams open and read the instruction folder. With guidance from event personnel, teams have two (2) hours to detect the problems and to briefly describe them in the log.
- H. Each team selects one member to undergo a customer support and service evaluation.
- I. When time is called, the instruction folders are collected and evaluated.

VI. Regulations

- A. The on-site portion of this event is accomplished on PC-based computers. A variety of manufacturers, components, and software may be represented.
- B. Each team works independently without assistance.
- C. Participants are not permitted to leave the event area without permissions from the event coordinator.
- D. Scores for each task range from zero (0) for not having identified the problem to ten (10) for having accurately found and briefly described the appropriate solution in the log.

VII. Evaluation

- A. The team's average test score is used to determine the top ten (10) finalists and as a tie-breaker in determining rank.
- B. Results of the troubleshooting portion are based on the log completed by each team.

DELTA DART GLIDER CONTEST

Middle School
revised: unknown

I. PURPOSE

- A. This event shall be open to two (2) entries per Middle School chapter. This event requires analytical thinking, experimentation, and interpretation of instructions in the solution of a design problem. The problem is to construct a glider in accordance with specifications and materials provided on site.

II. TIME LIMITATIONS

- A. All contest entrants will have one hour to interpret instructions and construct a glider.

III. SPECIFIC REGULATIONS

- A. Contestants may not take any notes, tools, or materials into the contest area.
- B. All materials will be provided on site.

IV. PROCEDURE

- A. Registration -- Contest participants must register for the event in accordance with procedures established for the conference.
- B. Competition
 - 1. Enter contest area at appropriate time.
 - 2. Listen to instructions from Contest Coordinator.
 - 3. All contestants will be provided instructions, materials, and tools necessary to complete glider.
 - 4. Contestants will have one hour to assemble glider.
- C. Contestants may have two flight attempts to fly the glider for a timed glide. The longest timed flight will be the winner, with all other flights ranked.

V. REQUIRED CONTEST PERSONNEL AND EQUIPMENT

- A. Contest Coordinator -- one (1)
- B. Judges -- three (3)

Digital Video Challenge

Middle School & High School

revised: November 2005

I. PURPOSE

- A. The PA-TSA Digital Video Challenge is designed to afford TSA members an opportunity to demonstrate their skills in the field of Digital Video.

II. TIME LIMITATIONS

- A. All contest entries must be submitted when the student registers for the TSA Conference. No entries will be received after registration is completed.
- B. All entries must have been produced within the current TSA year.
- C. One site, teams will be given 24 hours to videotape happenings and four (4) hours to produce a final video.

III. SPECIFIC REGULATIONS

- A. The event is limited to one team of two (2) participants from the same chapter at the State Conference.
- B. Teams must submit one completed video for pre-qualification.
- C. Finalists will be announced.
- D. Finalists must set up all equipment in the designated room.
- E. Finalists must edit their video for final judging.

IV. PROCEDURE

- A. All contestants for this event **MUST** register with Contest Coordinator at the time and location indicated in the Conference Program.
- B. Entry number and level **MUST** be taped or glued to the back of the mat board.
- C. Teams must submit one (1) 30 second commercial on standard VHS that promotes the participant's home chapter for pre-qualification.
- D. Finalists will be announced and a meeting place will be assigned for the final solution.
- E. Finalists will be given 24 hours to develop a story board, script and supporting material as well as videotape footage from the current state conference for use in the final solution.
- F. Finalists may not use stock video footage of any kind for the final solution.
- G. Finalists may only use royalty free music for their final solution.
- H. Finalists may solicit other conference participants to assist in their final solution, but only the registered two are permitted to edit the video.
- I. Finalists will be given four (4) hours to edit their final video solution, included in that time is the set up of their own equipment.
 - 1 No outsiders are permitted to help with the set-up, testing or editing of equipment or video.
 - 2 All video editing for the final solution must be completed during the final four hours of the event.
 - 3 No capturing of video to any computer device may be done prior to the final four hours of the event.
 - 4 You may manually log (write down time code) for segments that you wish to use.
- J. Finalists must export their final solution to tape (their preference of format) for viewing via the camera to a monitor.
- K. Finalist must provide a storyboard and script as well as the final product for judging (neatness will not be counted in the story board and script as long as it is legible).

V. REQUIRED CONTEST PERSONNEL AND EQUIPMENT

- A. Contest Coordinator
- B. One (1) person to register and collect entries

- C. Three (3) judges for pre-qualification and three (3) judges for the finalist (they maybe the same judges)
- D. Secure room with facilities for displaying videos.
- E. Secure room with facilities for editing videos.
- F. Equipment needed for video completed in advance of conference:
 - 1 The school may use any type digital video editing system they choose as long as the final product is on standard VHS tape.
- G. Finalists will be limited in the amount of equipment they bring into the final solution
 - 1 They MUST SUPPLY the following:
 - a One (1) DV camera ANY format tape
The camera MUST connect to the computer via FireWire cable (400 or 800), USB (1.2 or 2.0) or via an Analog to Digital convert box
 - b One (1) all-in-one computer
The computer must be a laptop capable of accepting FireWire, USB or analog or it must be an all-in-one computer such as a iMac (this is to limit the space and to limit problems during set up)
 - c One (1) Digital Video software package (such as iMovie or Final Cut) pre-loaded on the above computer.
 - d At least two (2) BLANK DV tapes, the final solution must be exported to it's own blank tape.
 - e Appropriate power cables, batteries, extension cords and power strips
 - f A/V cables for connection of camera to a monitor (the A/V cables that plug into the monitor must be of standard L/R Audio and Composite Video via RCA connection).
 - 2 They have the OPTION of using:
 - a One (1) external hard drive for additional storage
 - b One auxiliary microphone for connection to camera or computer (no sound boards are permitted).
 - c Royalty free music (this is the only part of the final solution which may be pre-loaded on the computer other than the software).
 - d A small camera attached light.
 - e Small light reflecting disk or card.

VI. CRITERIA FOR JUDGING

- A. Contestants shall be ranked in numerical order on the basis of final score to be determined by each judge without consultation with each other. The winner will be that contestant whose total score is the highest. Other placing shall be determined in the same manner. In case of a tie, judges shall consult each other to ascertain the winner.
- B. Ratings shall be based upon the following for pre-qualifications:
 - a **Points to be determined by January 2005.**
- C. Contest Coordinator will provide the top ten finalists for each level to the Competitive Coordinator.
- D. Ratings shall be based upon the following for finalists:
 - a **Points to be determined by January 2005.**
- E. Contest Coordinator will provide a sealed packet to the Competitive Coordinator containing the results.
- F. All judges' rating and results are to remain confidential.

MATERIALS PROCESSES

Middle School & High School

Revised: November 2005

Overview: TSA contestants entering the Materials Processes contest are required to submit drawings and photographs of a project that they have constructed during the school year.

I. PURPOSE

- A. The purpose of the Materials Processes contest is to provide a means for TSA members to demonstrate their ability to fabricate a project or product.

II. ELIGIBILITY FOR ENTRY

- A. No chapter may submit more than one entry.
- B. See "General Rules" for additional information.

III. TIME LIMITATIONS

- A. Interviews with the "TOP 10" contestants will be limited to 15 minutes.
- B. Project/product must have been started and completed during the current school year.
- C. One copy of the word processed written development procedure, photographs, and working drawings must be submitted with the entry upon check-in for this event (See Conference Information Book)

IV. SPECIFIC REGULATIONS

- A. The contestants' project/product drawings and written development procedures with photographs will be setup in the display area.
- B. Students entering this contest are required to:
 - 1. Submit working drawings. The working drawings must provide all needed illustrations and identify all necessary dimensions on maximum paper size E (36"x 48").
 - 2. Commercially produced plans/drawings are permitted. Detailed drawings of the product are highly suggested.
 - 3. Working drawings will contain no more than (5) sheets. The parts lists should be included in the (5) sheet count for the drawings.
 - 4. Submit written developmental procedures word-processed on 8 1/2" x 11" paper. Maximum 5 pages.
 - 5. This documentation should include the following: materials list, the finish used, construction processes (how the product was completed) and its function. The written development procedure shall be no more than (5) pages (Photographs are not to be included in the 5 page count) All papers are to be placed in a standard 3 ring binder for 8-1/2" x 11" paper.
- C. The product /project may be fabricated from one or more of the following materials: wood, metal, plastics, composite, or earth material.
- D. Commercially produced product kits are not acceptable entries. example(clock kits with pre-cut parts)
- E. The project/product must be the work of one student.
- F. Any special set-up and /or equipment required for the project entry will be the responsibility of the contestant.
- G. The contestants will have the responsibility of transporting their project/product to the State Conference for final judging and display.
- H. The project/product must fit within 16 sq.ft. of floor space provided at the State Conference.
- I. Photographs shall be used as part as of the written development procedure and reflect all stages of production. Maximum individual photo size 4" x 6", and a maximum number of photo pages limited to (5)

- Documentation page details
- Drawing.....Maximum 5 sheets and includes parts list.
- Developmental Document..... Maximum (5) 8-1/2"x11" pages
- Photo JournalMaximum (5) 8-1/2"x11" pages

V. PROCEDURE

- A. Registration for contestants
 - 1 Contestants register and set up for the event in accordance with the procedures established for the conference.
 - 2 Top ten finalists must be available for event interviews at times established at the conference.

VI. REQUIRED CONTEST PERSONNEL AND EQUIPMENT

- A. Contest Coordinator
- B. Judges – three per level
- C. Personnel assigned to check in and receive entries.
- D. Personnel assigned for security.
- E. Display area (16 sq. ft.) for entries; 4 ft. table space.

VII. CRITERIA FOR JUDGING

- A. The product, written development procedures, photographs and drawings will be used to determine the finalists.
- B. The following rating scale will be used to determine the finalists.
 - 1 Workmanship / Complexity of product.....30 points
 - 2 Written Procedures 15 points
 - 3 Photographic Journal.....5 points
 - 4 Proper use of Materials / Design Features.....10 points
 - 5 Working Drawings.....10 points
 - 6 Oral Interview of Finalists.....30 points
 - 7 One or more Rules Violations DEDUCTION.....-20 points

PA-TSA RC VEHICLE
1:10 SCALE ELECTRIC VEHICLES
Middle School & High School
Revised: July 2006

I. PURPOSE

- A. The R/C racing competition is designed to promote teamwork and problem solving among students as they acquire the technical skills to build, modify, operate, and maintain a radio-controlled vehicle. At the conference, each team will be required to install a motor provided by PA-TSA into their vehicle. This motor is to be used for all races. Additionally, prior to the conference, high school teams will be required to make their own chassis frame. Each team's evaluation will be determined by points earned for their report cover contents, craftsmanship of their chassis frame (high school only), and racing results.

II. TIME LIMITATIONS

- A. Each chapter must have their vehicle assembled and ready to run (except for the motor installation) prior to the start of the conference.
- B. Each chapter must register its radio channels at a time specified in the conference program. A team that incorrectly declares its radio channels, which causes a conflict during a race, will be disqualified from the race.
- C. Each team is responsible for having its race vehicle and/or race team at the orientation sessions or track at the scheduled time as specified in the conference program.
- D. Each team will have up to 30 minutes to install a PA-TSA provided motor into their vehicle.
- E. The team must have its vehicle ready to run and on the track at the specified time of each heat and race. The race will begin with or without the scheduled driver at the time designated by the race director.

III. SPECIFIC REGULATIONS

- A. Each chapter may enter one racing team, comprised of three (3) chapter members, two (2) of which are drivers.
- B. **High school teams** must enter a vehicle that contains a chassis frame that they have designed and/or manufactured. The chassis frame is the part of the vehicle to which all other parts are attached. This chassis frame submitted for competition must have been made during the current school year and may not be submitted in subsequent years. The team must provide a report cover complete with an appropriately produced 8.5 inches by 11 inches technical drawing of their chassis frame, a typed or electronically produced report (a hand written report will not be accepted) and pictures on 8.5 inches by 11 inches sheets of paper documenting the making of the chassis frame, and a signed statement from the advisor verifying that the chassis frame and the report cover with its contents were created during the current school year. NOTE: A team that submits no cover report or a cover report that does not have all of the required previously mentioned content will be disqualified from the race.
Middle school teams must have assembled their vehicle during the current school year. If the vehicle was used in previous years and/or had been assembled in a previous year, the team must totally disassemble the vehicle and reassemble it again. The team must provide a report cover complete with a typed or electronically produced report (a hand written report will not be accepted) and pictures on 8.5 inches by 11 inches sheets of paper documenting disassembled parts and the team assembling the vehicle, as well as a signed statement from the advisor verifying that the team assembled the vehicle and completed the report and picture documentation during the current school year. NOTE: A team that submits no cover report or a cover report that does not have all of the required previously mentioned content will be disqualified from the race.
- C. Two of the team members must race in a qualifier heat. The best score of the two will be sorted for the mains race, and the final round will be determined. In the final round, the student who achieved the highest score must race to represent his/her team. Only one member from each team may qualify for the mains race. Note: Even though only the best score is used to determine the mains race, the score of both drivers is used to determine team points as indicated in section VII, C.

- D. Each team must have a minimum of two changeable radio channels, available for immediate change as needed. Only radio systems on 27 mhz bands (channels 1 through 6) or 75 mhz bands (channels 61 through 90) will be allowed for competition. Spektrum and DSM systems are permitted as well. In the event of radio conflicts in the mains, the lower qualifying racer must change his or her channel.
- E. Each team must supply the appropriate safety equipment and tools to install the motor. Participants must have been instructed in safety precautions (soldering, using flammable materials around soldering guns or pencils, etc.) by their advisor or teacher prior to the conference. Safety glasses must be worn during soldering operations. Participants observed soldering without safety glasses will be disqualified.

IV. PROCEDURES

- A. At a designated time, team members will report with their car, radio, and report cover to a place designated in the conference program to register, receive a motor for their vehicle, and to declare their radio channels. Motors will be numbered and one team member will draw lots to determine which motor they will receive. After the team member receives their motor, they must remain in the designated area until all members have received their motors. At that time all team members will be dismissed to their work areas and will have up to 30 minutes to install the motor in their vehicle. NOTE: only the three registered team members are permitted in the work areas – no advisors or other chapter members are permitted. When the time ends, all work on installing the motors must cease, and all vehicles must be taken immediately to an inspection and impound area. Teams must also bring their report covers with required documentation to the inspection area at this time. Vehicles will be inspected to determine if they are in running condition and if they meet specifications and regulations. Teams that have vehicles that are not in running condition or fail to meet specifications/regulations during the inspection will be disqualified from the race. Teams that have incomplete or non-existent report covers will be disqualified from the race. Following their inspection, teams may sign up for a practice time if they have met all requirements.
- B. Practice will begin after the track has been set up and readied for competition. Radios will not be impounded at practice, but they may not leave the event hall area. Practice will be in controlled sessions, with teams signing up for five (5) minute time blocks based on frequency availability. Vehicles on the track will be limited to ten (10) or less for each time block based on the number of entries and the time the event hall is available. The purpose of the practice time is for each team to check out its car with the installed motor to be able to determine if adjustments in gearing, suspension, etc. needs to be made. The purpose of the practice time is not for racing. All radios will be impounded following the practice time. Each radio must be clearly marked with team identification and channel before impounding
- C. At the start of the race, radios will be returned to assigned racers prior to the race in which they are competing. Just prior to each race, transponders will be issued to each driver in that race. Radios and transponders must be returned to the impound area immediately following the end of their race. NOTE: RADIOS MAY NOT BE TURNED ON BEFORE A RACE UNTIL THE RACE DIRECTOR HAS INDICATED TO DO SO. Members in violation of this rule, or who fail to return their radios to the impound area immediately after their race subject themselves to disqualification.
- D. All team members must be present at the orientation prior to the start of the first qualifying heat. The race director may make revisions in certain procedures as he/she may deem necessary for certain conditions. Any revisions will be announced at the drivers' briefing and/or posted at a specified place at the conference site.
- E. Each of the two (2) designated drivers of each team will drive in one qualifying heat of four minutes duration. After the qualifying heats, lap sorting of each team's best qualifier/driver will take place and the top ten drivers in each level will be qualified for the mains. The qualifying driver must drive in the mains event. If, for some reason, a qualifying team is unable to compete in the mains, the next qualifying team (11th place, etc.) will fill their place. The mains for each level will be two races with five drivers in each race. The mains event will be six (6) to eight (8) minutes in length and will require at least one task to be executed within the allotted time of their respective mains. At the conference, the race director will determine the length of the mains based on the assigned task(s) and the race director's inclinations. Examples of tasks may include, but not be limited to, a battery change, wheel changes, etc. The task anticipated for the conference will be posted on the PA-TSA website by January of the current school year. The driver may not leave the driver area to assist the other members during this designated task(s). Teams that do not complete the task assigned in the mains will not have their laps counted and will not receive any of the mains points. A designated pull-off area (pit area) will be provided on the race course for pit stops. A vehicle may be repaired at any time during the qualifier or mains if it

is necessary. The assigned task and repairs must be made in the designated “pit area” and the vehicle may not leave this area except to be replaced back on the track. Once the vehicle is repaired, it must be returned to the track in front of the “pit area”. Only the other team members of the driver are permitted in the “pit area”. Officials will be observing the “pit area”. During the mains, an official will raise their hand indicating to the race director or score keeper that the team has completed the assigned task

- F. Each team will be responsible for proper care and maintenance of their vehicle, including charging of batteries.
- G. Drivers from both levels may be mixed together in the preliminary heats, but each driver’s results are recorded into their specific level. Each main will then be sorted by level so that drivers from the same level compete against each other in mains race.
- H. Following the last race of the mains, all teams shall immediately remove and return the motors supplied to them from PA-TSA in the same operating condition as they received it. Failure to do so subjects themselves and/or their chapter to a reimbursement cost of \$40 payable to PA-TSA. Chapters that do not pay their reimbursement fee will not be permitted to register for the next conference until the fee is paid.
- I. Decisions of the event coordinator are final.

V. OTHER SPECIFIC RULES

A. GENERAL RULES

- 1. If a team member is disqualified, the team is disqualified.
- 2. Unruly or unsportsmanlike conduct will not be tolerated. Any team member in violation of this will be disqualified. Spectators judged to be in violation of this will be requested to leave the area.
- 3. Unsportmanlike driving (intentional hitting of other vehicles, short coursing, etc.) is not permitted. Horseplay with a vehicle before, during or after a race also applies. Anyone doing so may be disqualified at the judgment of the race director.
- 4. Abusive, inappropriate language by any team member will result in disqualification.

B. INSPECTIONS

- 1. Inspections will be held prior to each race.
- 2. Vehicles will be inspected after each race. Vehicles may not be removed from the track until the inspection is over and/or directed to do so by the race director.
- 3. A driver who fails to submit the vehicle to inspection, anytime, will be disqualified.

C. DRIVING RULES

- 1. No vehicle is to be driven in the reverse direction of the track traffic at any time. A one lap penalty will be assessed to the driver doing so.
- 2. A driver must be careful not to hit the throttle when a turn marshal is handling the vehicle. (Remember, they are helping the driver who caused the need for the turn marshal to help).
- 3. A vehicle must finish the race under its own power. It may not be pushed across the finish line.
- 4. Vehicles may not be repaired on the track. They must be repaired in the “pit area”.
- 5. The driver may not leave the driver’s platform at any time during the race.

D. TURN MARSHALS

- 1. Drivers must be turn marshals for the race immediately following their own race. Failure to do so will result in the loss of one lap in their heat. Another chapter member may substitute, if necessary, but the original driver is responsible for the actions of the substitute. **Drivers scheduled for the last heat must be turn marshals for the first heat.**
- 2. Overturned or lodged vehicles are to be set aright on the track at the spot of the mishap. Vehicles that accidentally exit the track are to be returned to the track at the spot of the exit.
- 3. Vehicles in need of repair are to be set outside of the track nearest the spot of the trouble. The pit crew member must pick up the vehicle at that point and return it to the “pit area” for repairs. Pit crew members must go around the track, not across it, to pick up their vehicle. Once repaired, the vehicle must be returned to the track in front of the “pit area”.
- 4. A vehicle on the track has the right of way over a vehicle that has gone off the track, overturned, or otherwise has problems.
- 5. Turn marshals must treat all vehicles equally.
- 6. Drivers, or their substitutes, are responsible for knowing the requirements of a turn marshal and to follow them appropriately.

E. GENERAL TECH RULES

- 1. Drive motors for the vehicles will be owned and distributed by PA-TSA. All vehicles must be able to accept these motors. Motors will be Trinity Snowbirds Handout 27 turn Stock Motor

(or a comparable 27 turn handout motor), marked and easily identified. These motors may not be modified or changed in any manner except to be re-brushed and/or re-sprung to the student's desired specifications. Any other tampering with the motor will result in disqualification and the offender(s) will be charged a \$40 fee for replacement of the damaged product. For those teams wishing to practice work with a motor prior to the conference, the handout motor, which is not available for purchase, is similar to any standard 27 turn ROAR (Radio Operated Auto Racing) stock motor.

2. The vehicle must be a standard commercial model, built from a kit available through distributors and hobby dealers or a vehicle built from cannibalized parts from other vehicles. Suggested, but not limited to, manufacturers of vehicles are Team Associated, Team Losi, Traxxis, and Tamiya. The vehicle may not be a factory-assembled vehicle.
3. All parts (except as otherwise noted) may come from a kit or parts vehicles.
4. All vehicles must race with a body. Bodies must be either of the commercially available type used for RC racing or constructed by the team. The body must be of Lexan or similar material and may have multiple pieces bonded or fastened together. Bodies must be removable, but properly secured. Rubber bands and wire-ties are not permitted to hold the body in place. Velcro securing is permitted.
5. If the body falls off during the race, the vehicle must be taken off the track to the "pit area" and refastened to resume the race. Bodies constructed of multiple pieces that come apart during the race, must be reconnected to resume the race.
6. The front most and the rear most part of the vehicle must contain a shock-absorbing bumper. Non-existent or non shock-absorbing bumpers are not permitted.
7. No sharp, protruding objects are permitted on vehicles, including wires protruding from sway bar mounts.
8. Only commercially available tires and wheels may be used. Total tire diameter may not exceed 5.5 inches. Tires must be either rubber based or foam rubber compound. Tire traction compound is permitted, but only of the orange variety. Racer's Choice #7011 (TQ) and #7019 (TQ Plus) are currently the only ones allowed.
9. Overall width of the vehicle may not exceed 15 inches. Overall length of the vehicle may not exceed 24 inches. Overall height of the vehicle cannot exceed 8 inches at the topmost measurement (excludes antenna straw).
10. Minimum vehicle weight is 50 ounces without the transponder/scoring device.
11. The vehicle is to be two-rear drive only. If the vehicle has four-wheel drive, the front end drive must be disengaged.
12. Only sub-C size batteries, either NiCad or NiMH composition, are approved for propulsion. The cells must be rated 1.2 volts, with any mah rating, and consisting of no more than 6 cells soldered in series. In addition to the propulsion pack, a receiver pack of AA batteries with no more than 5 cells in construction, will be permitted to power the radio system only.
13. Any resistor type or electronic speed control may be used in conjunction with the radio. Vehicles must have proportional control of the throttle and the steering in order to compete.
14. Any part of the vehicle, except the motor, may be customized as long as it does not violate any of the rules previously mentioned.

VI. REQUIRED EVENT PERSONNEL AND EQUIPMENT

A. Personnel

1. Event coordinator/chief judge (race director)
2. Appointed race officials (3) to assist with distribution of motors, to monitor their installation, perform inspections, and to assist in the race coordination. An additional 2 officials are needed for preliminary heats. A total of eight officials are need for the mains.

B. Materials and equipment

1. Motors
2. Brushes and springs
3. Check-in, evaluation, and racing forms
4. Race scoring system – automatic AMB scoring using transponders
5. Scale for weighing vehicles
6. Template box with inside dimensions of 13 inches by 24 inches by 8 inches deep for determining vehicle size

7. Track and track partitioning accessories

VII. EVALUATION

- A. Up to 10 points will be awarded for quality of the submitted work in the report cover.
- B. Up to 10 points will be awarded for the craftsmanship and design of the chassis frame (high school only).
- C. After the preliminary heats, the number of laps recorded for each team member will be added together. Each team's number of laps will be divided by the highest number of laps scored in the preliminary heats, then multiplied by 40 to determine their points earned. Maximum points possible in the preliminary heats are 40.
- D. After the mains, the number of laps recorded for each team will be divided by the highest number of laps scored in the mains, then multiplied by 40. Maximum points possible in the mains is 40.
- E. Any ties in final points will be broken by the teams' place in the final or preliminary race, whichever needs to be used.
- F. Disqualification will result from the following:
 - 1. Any previously mentioned reason for disqualification
 - 2. Failure to meet time limitations, procedures, regulations, or rules
 - 3. Having a vehicle deemed to be unsafe by the race director

PA-TSA RC VEHICLE

ADVISOR VERIFICATION STATEMENT

(MIDDLE SCHOOL)

(THIS FORM MUST BE INCLUDED IN THE REPORT COVER)

By my signature I am verifying that the RC VEHICLE team of our school's TSA chapter:

(a) has totally assembled our vehicle and completed the report and picture documentation during the current school year;

and

(b) has been instructed in safety precautions, especially in the use of soldering guns/pencils, when working on this vehicle

ADVISOR'S SIGNATURE

PA-TSA RC VEHICLE

ADVISOR VERIFICATION STATEMENT

(HIGH SCHOOL)

(THIS FORM MUST BE INCLUDED IN THE REPORT COVER)

By my signature I am verifying that the RC VEHICLE team of our school's TSA chapter:

(a) has manufactured the chassis frame of our vehicle during the current school year;

and

(b) has completed the technical drawing, report, and picture documentation during the current school year;

and

(c) has been instructed in safety precautions, especially in the use of soldering guns/pencils, when working on this vehicle

ADVISOR'S SIGNATURE

SAFETY ILLUSTRATION

Computer Graphics
Middle School and High School
revised: July 2005

Overview: The Safety Illustration event is designed to encourage members' attention to the promotion of safety and safety practices when using any form of technology.

I. PURPOSE

- A. The purpose of the Safety Illustration event is to provide a means for TSA members to demonstrate their ability to recognize safety needs and safety practices when using all forms of technology, traditional or high tech.

II. ELIGIBILITY FOR ENRTY

- A. Entries are limited to two individual entries per chapter. You may not enter the hand drawn event.

III. SPECIFIC REGULATIONS

- A. The poster is to be an original work, not using copyrighted computer graphics.
- B. The illustration will depict a safety procedure/concept that relates to the theme "Safety First when using Technology". The theme does not need to appear on the illustration, but should be used as a guide in selecting an appropriate idea for the entry.
- C. The illustration must be on 8.5" x 14" paper, mounted to illustration board, or foam board. Any poster not following this rule will be disqualified.
- D. Mounting board MUST be 8.5" x 14".
- E. Any use of copyrighted or registered artwork in the design is prohibited.
- F. A one page word processed report documenting the design should be attached to the back of the poster. The documentation shall include an explanation of the design process used to create the poster. It should also include how the theme influenced the poster's design.
- G. The illustration must be a flat, two dimensional design. Attaching of a second party original graphic or text is acceptable as long as it remains flat and two dimensional, with the second party work sited in the documentation.

IV. PROCEDURE

- A. Registration must be done for the event in accordance with the procedures established for the conference.
- B. The illustration must be entered during the assigned event entry time. Late entries will not be accepted.

V. REQUIRED EVENT PERSONNEL AND EQUIPMENT

- A. Event coordinator to check in and position entries.
- B. Three judges per level.
- C. Display area for viewing and judging entries.

SAFETY ILLUSTRATION

Hand Drawn

Middle School and High School

revised: July 2005

Overview: The Safety Illustration event is designed to encourage members' attention to the promotion of safety and safety practices when using any form of technology.

I. PURPOSE

- A. The purpose of the Safety Illustration event is to provide a means for TSA members to demonstrate their ability to recognize safety needs and safety practices when using all forms of technology, traditional or high tech.

II. ELIGIBILITY FOR ENRTY

- A. Entries are limited to two individual entries per chapter. You may not enter the computer graphic event.

III. SPECIFIC REGULATIONS

- A. The poster is to be an original work, not using any computer generated graphics or text.
- B. The illustration will depict a safety procedure/concept that relates to the theme "Safety First when using Technology". The theme does not need to appear on the illustration, but should be used as a guide in selecting an appropriate idea for the entry.
- C. The illustration must be on 11" x 17" poster board, illustration board, or foam board. Any poster not following this rule will be disqualified.
- D. **If a mounting board is used, it MUST be 11" x 17".**
- E. Any use of copyrighted or registered artwork in the design is prohibited.
- F. A one page word processed report documenting the design should be attached to the back of the poster. The documentation shall include an explanation of the design process used to create the poster. It should also include how the theme influenced the poster's design.
- G. The illustration must be a flat, two dimensional design. Attaching of a second party original graphic or text is acceptable as long as it remains flat and two dimensional, with the second party work sited in the documentation.

IV. PROCEDURE

- A. Registration must be done for the event in accordance with the procedures established for the conference.
- B. The illustration must be entered during the assigned event entry time. Late entries will not be accepted.

V. REQUIRED EVENT PERSONNEL AND EQUIPMENT

- A. Event coordinator to check in and position entries.
- B. Three judges per level.
- C. Display area for viewing and judging entries.

STENCIL LOGO DESIGN

Middle School & High School

revised: November 2005

Overview

A stencil is a printed piece produced from a plate whose printing areas are openings through which ink can pass, including but not limited to screen-printing. This contest requires the student to demonstrate a solution to a screen-printing problem and write a paper on the process. The problem is to create an original tee shirt design that could become the official PA-TSA tee shirt at next year's state conference. If chosen, the entry should be designed to appear on all state conference publications (website, mailings and programs).

I. PURPOSE

- A. The State Conference Graphic Design Contest is designed to demonstrate design, layout, production, and presentation skills of visual communications with the graphic stencil process.

II. LIMITATIONS

- A. All contest entries must be submitted at the display event check in. No late entries.
- B. All entries must have been completed during the current TSA year. (After July 1st)
- C. The student is responsible for 90% of the work.

III. SPECIFIC REGULATIONS

- A. The entry should be made to fit on the following items:
 - 1. *Standard t-shirt*
Either the front, back or both sides may be printed on. The front should be limited to the left breast pocket; the back may encompass the entire shirt.
 - 2. *Web Site*
The design should be a re-layout to fit the PA-TSA web site and should be no larger than 1" tall by 7.5" wide, or a ratio of 1:7.5.
 - 3. *Conference Program*
The design should be a re-layout to fit the PA-TSA conference programs and should be no larger than 3.5" wide and 7.5" tall.
- B. Each contestant must submit only one (1) entry for the contest. The design should include, but not be limited to, next year's TSA theme, TSA Logo, the year (ex. 2006) and the words Pennsylvania Technology Student Association or Pennsylvania TSA. **(New for 2006 - please do not include the conference date and Seven Springs. This design will be used as a state conference shirt and a contingency shirt to go to nationals.)**
- C. The entry may be produced on paper or other materials used in stenciling. The entry should be a multi-color product, using a maximum of three (3) colors (single color products will be accepted without penalty).
- D. A comprehensive layout must be submitted and displayed with each entry. The entry number must appear on the specification sheet.
- E. A specification sheet must be completed and displayed with each entry.
- F. Entries must be mounted on illustration board or in an attractive manner. T-shirts that do not lend themselves to mounting must still conform to the display area. Display size: maximum of 1' deep x 3' wide x 3' tall.
- G. A technical paper must accompany this project. The paper should outline the processes used and the procedural steps used in the completion of the project. Include all steps from design to completion. This paper is to be typed and placed in a ring binder. The ring binder may be part of the display; however, it must be detachable for the judges to review.
- H. Since this is a test of a student's ability to produce a message in quantity, no less than 25 consecutively printed proofs should be included as well as one black and white (see "J")

final design copy. (It is not necessary to print a shirt, or limit to one side.) In addition, one color copy proof of the web design and the cover design should be printed and included with the display.

- I. Each entry must be clearly identified with the contestant's level, category, classification, and entry number at registration. The contestant's name, the instructor's name, or the school's name must be removed or blocked out.
- J. The color separations should be included so it can be easily scanned for use on the web and the conference handbook.
- K. The web site design and the publication design doesn't need to be printed via the screen method. The proofs required may be printed via a color inkjet or color laser printer. The "clean copy" color separations can be printed via a B/W laser printer.

IV. PROCEDURE

- A. Contestants will register with the Contest Coordinator at the time and place specified.
- B. Once the entry is placed at the designated area, it will not be available until pick up time.
- C. Location for entries will be secure and kept free of contestants until after judging.

V. REQUIRED CONTEST PERSONNEL AND EQUIPMENT

- A. Contest Coordinator
- B. Three (3) judges per level
- C. Room with facilities for display of two and/or three-dimensional entries.

VI. CRITERIA FOR JUDGING

- A. Contestants shall be ranked in numerical order on the basis of final score to be determined by each judge without the consultation of each other. The winner is the contestant with the highest total score. Other placing shall be determined in the same manner. In case of a tie, the judges shall consult with each other to break the tie.

STENCIL LOGO DESIGN - SPECIFICATION SHEET

Entry No. _____ Fill in the blanks or circle the appropriate answers.

HIGH SCHOOL MIDDLE SCHOOL

PLANOGRAPHIC STENCIL OTHER _____

TYPE COMPOSITION: Type fonts and point sizes should be labeled on thumbnail sketch.

_____ Handset and Proofed _____ Original and Ink
_____ Computer: Type _____ Program _____
_____ None
_____ Other: Explain _____

ART COMPOSITION:

_____ Pen and Ink Original
_____ Photograph
_____ Clip Art
_____ Computer Art: Computer Program _____
_____ Rubylith
_____ None
_____ Other: Explain _____

FILM TYPE:

_____ Positive: Film Type _____
_____ Negative: Film Type _____
_____ Hand cut Rubylith
_____ None
_____ Other: Explain _____

FILM EXPOSURE UNIT

_____ Process Camera: Type of Camera _____
_____ Enlarger
_____ Contact Printer
_____ None
_____ Other: Explain _____

INK TYPE AND COLOR USED:

SUBSTRATE:

_____ Paper Name _____ Weight _____
Printing Size _____ x _____ Finished Size _____ x _____
Grain _____ Number of Sheets _____
_____ Other (e.g. fabric, glass, metal, wood, plastic, etc.)
Kind _____ Color _____
Printing Size _____ x _____ Finished Size _____ x _____

PLANOGRAPHIC:

Type of Printing Unit _____
Unit Delivery System _____
Type of Plate _____
Other _____

FINISHING:

_____ Padding _____ Book Cover
_____ Binder _____ None
_____ Other: Explain _____

PA B/W PHOTOGRAPHY

Middle School

OFFICIAL RATING FORM

ENTRANT'S ID																				
EVALUATION CRITERIA (Y N NA)																				
Does the photo meet size requirements?																				
Is the mount board white?																				
Is the mount board 11" x 14"?																				
Is the data form complete and attached?																				
Are the consent forms complete and attached?																				
Is the negative on the back of the mount board?																				
ANY "NO" ITEMS - PHOTO IS DISQUALIFIED!																				
Composition.....45 points max. Originality Theme Interpretation Composition Rules																				
Technical Quality.....45 points max. Contrast/Lighting Sharpness Print Quality (dust, scratches)																				
Finishing.....10 points max. Mounting Trimming																				
Total.....100 points max.																				

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

Evaluator's Signature

PA- CADD - MS

General Design MS

OFFICIAL RATING FORM

ENTRANT'S ID																				
EVALUATION CRITERIA																				
Accuracy of Solution.....25 points max.																				
Placement of Views.....5 points max.																				
Dimensioning.....10 points max.																				
Utilizing CADD Functions.....15 points max.																				
Completeness.....10 points max.																				
Design,Originality and Creativity.....25 points max.																				
Linetype and Pens.....5 points max.																				
Drawings Set-up.....5 points max.																				
Rules Violation.....Minus 20 points																				
Total.....100 points max.																				

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

Evaluator's Signature

PA-Computer Systems Troubleshooting Official Rating Form

Team ID										
Written Test Total										
Finalists										
Construction										
Task 1..... 10 pts.										
Task 2..... 10 pts.										
Task 3..... 10 pts.										
Task 4..... 10 pts.										
Task 5..... 10 pts.										
Troubleshooting										
Fault 1..... 10 pts.										
Fault 2..... 10 pts.										
Fault 3..... 10 pts.										
Fault 4..... 10 pts.										
Fault 5..... 10 pts.										
SUBTOTAL..... 100 pts.										
<i>Rules Violation</i> -20 pts.										
TOTAL..... 100 pts.										
Rank										

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

Evaluator's signature: _____

PA-TSA DELTA DART

OFFICIAL RATING FORM

ENTRANT'S ID																				
EVALUATIVE CRITERIA																				
Adherence to Specification.....10 points max.																				
Design.....5 points max.																				
Quality of Construction.....10 points max.																				
Flight Time.....75 points max.																				
Total.....100 points max.																				

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

Evaluator's Signature

FLIGHT TIME PLACEMENT SCORING

- 1st.....75 points
- 2nd.....71 points
- 3rd.....67 points
- 4th.....63 points
- 5th & 6th.....60 points
- 7th & 8th.....55 points
- 9th - 12th.....50 points
- 13th - 16th.....44 points
- 17th - 25th.....36 points
- All others.....25 points

PA-TSA DIGITAL VIDEO PRELIMINARY COMMERCIAL EVALUATION
MIDDLE SCHOOL AND HIGH SCHOOL

OFFICIAL RATING FORM

			ENTRANT'S ID											
AREAS OF EVALUATION	EVALUATION CRITERIA	MAX. PTS.												
CAMERA TECHNIQUES, CAMERA PLACEMENT AND FRAMING	All shots are steady and in focus; zooms and camera movements are smooth and at the appropriate speed; varied camera shots, angles and placement are used and add interest to the video; All subjects are appropriately framed; head room, nose room/lead room appropriately used	15												
LIGHTING AND SOUND	Shots are appropriately lit; evidence that potential lighting problems have been considered; camera is properly white balanced; Sound is well coordinated with the video; blends in and out evenly; speakers are very easy to understand	5												
TRANSITIONS, EDITS & PACE	Edits are smooth and clean; transitions are appropriate and add to the flow of the video; cuts advance at a comfortable pace; good continuity; cuts show variety and appropriateness in length	10												
CONTENT & THEME	Content is clearly relevant to the theme of assignment or topic; message is clear; video makes an excellent connection to the audience	10												
ORIGINALITY & CREATIVITY	Video shows excellent originality in composition and delivery; has creative framing; music selection or added imported sound enhances the video; text is used appropriately	10												
SUBTOTAL 50 POINTS MAX.														
THE FOLLOWING PENALTY POINTS WILL BE SUBTRACTED FROM THE SUBTOTAL AS FOLLOWS: <ul style="list-style-type: none"> • 2 POINTS FOR EACH SECOND THE FINAL VIDEO IS OVER OR UNDER THE SPECIFIED LENGTH OF TIME. TIME BEGINS WITH THE FIRST PICTURE OR SOUND AND ENDS WITH THE LAST PICTURE OR SOUND 		LESS PENALTY POINTS												
FINAL TOTAL														

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

 Evaluator's Signature

PA-TSA DIGITAL VIDEO FINAL PROJECT EVALUATION

MIDDLE SCHOOL AND HIGH SCHOOL

OFFICIAL RATING FORM

				ENTRANT'S ID																	
AREAS OF EVALUATION	EVALUATION CRITERIA	EXAMPLES OF CAUSES FOR POINT LOSS	MAX. PTS.																		
CAMERA TECHNIQUES	All shots are steady and in focus; zooms and camera movements are smooth and at the appropriate speed	Shots that indicate an unsteady camera; shots with subject(s) out of focus; zooms and camera movements are too fast, too slow, or erratic in movement; zooms and/or movements used excessively	10																		
CAMERA PLACEMENT & USE	Varied camera shots, angles and placement are used and add interest to the video	Using camera primarily for only one or two types of shots; camera placement for angles and distance is not varied	10																		
FRAMING	All subjects are appropriately framed; head room, nose room/lead room appropriately used	Too much or not enough head room for subjects; not enough nose room or lead room;	5																		
LIGHTING	Shots are appropriately lit; evidence that potential lighting problems have been considered; camera is properly white balanced	Shots contain images from unintentional backlighting; dark subjects, and/or excessive brightness; improper white balance	5																		
SOUND	Sound is well coordinated with the video; blends in and out evenly; speakers are very easy to understand	Uneven volume with overall soundtrack; speakers are hard to understand because of low volume or competing sound; video contains distracting sound	5																		
TRANSITIONS, EDITS & PACE	Edits are smooth and clean; transitions are appropriate and add to the flow of the video; cuts advance at a comfortable pace; good continuity; cuts show variety and appropriateness in length	Overuse of transitions; jump cuts; uneven flow of action between cuts; cuts too long or too short;	20																		
CONTENT & THEME	Content is clearly relevant to the theme of assignment or topic; message is clear; video makes an excellent connection to the audience	Theme or message is unclear or irrelevant; audience connection is in question (video appeals mostly only to those involved in the video)	20																		
ORIGINALITY & CREATIVITY	Video shows excellent originality in composition and delivery; has creative framing; music selection or added imported sound enhances the video; text is used appropriately	Video lacks evidence that creativity was considered; lack of creative composition in shots; music selection detracts from the video	20																		
STORYBOARD & SCRIPT	Storyboard and script match final video		5																		
SUBTOTAL 100 POINTS MAX.																					
THE FOLLOWING PENALTY POINTS WILL BE SUBTRACTED FROM THE SUBTOTAL AS FOLLOWS: <ul style="list-style-type: none"> • 2 POINTS FOR EACH SECOND THE FINAL VIDEO IS OVER OR UNDER THE SPECIFIED LENGTH OF TIME • 5 POINTS FOR EACH REQUIRED ELEMENT MISSING FROM THE FINAL VIDEO 			LESS PENALTY POINTS																		
FINAL TOTAL																					

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

Evaluator's Signature

PA MATERIAL PROCESS

OFFICIAL RATING FORM

LEVEL: MS or HS (circle one)

ENTRANT'S ID																				
Workmanship30pt. max																				
Written Procedures.....15pt. max																				
Photo Journal5pt. max																				
Materials / Design.....10pt. max																				
Working Drawings10pt. max																				
Subtotal70pt. max																				
Oral Interview (finalist only) 30pt. max																				
Rules Violation.....Minus 20 points																				
Total.....100pts. max																				

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

Evaluator's Signature

Printed Name

PA – RADIO CONTROL TRANSPORTATION

OFFICIAL RATING FORM

LEVEL: MS or HS (circle one)

ENTRANT'S ID										
EVALUATION CRITERIA										
REPORT COVER 10 points max. Written Report 5 points Picture Documentation5 points										
CHASSIS FRAME (high school only) .. 10 points max. Technical Drawing 3 points Craftsmanship 7 points										
PRELIMINARY HEATS 40 points max. Add the number of laps in the preliminary heats of each of the drivers together, then divide by the <u>highest</u> number of laps recorded by two drivers, then multiply by 40.										
MAINS 40 points max. Divide the number of laps the driver achieved in the mains by the <u>highest</u> number of laps recorded in the mains, then multiply by 40.										
TOTAL 100 points max.										

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

Evaluator's signature

PA SAFETY ILLUSTRATION

Computer Graphic

OFFICIAL RATING FORM

LEVEL: MS or HS (circle one)

ENTRANT'S ID																				
Eye Appeal20pt. max																				
Content.....20pt. max																				
Creativity20pt. max																				
Neatness10pt. max																				
Layout/Organization10pt. max																				
Documentation20pt. max																				
Subtotal																				
Rules Violation.....Minus 20 points																				
Total.....100pts. max																				

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

Evaluator's Signature

Printed Name

PA SAFETY ILLUSTRATION

Hand Drawn

OFFICIAL RATING FORM

LEVEL: MS or HS (circle one)

ENTRANT'S ID														
Eye Appeal20pt. max														
Content.....20pt. max														
Creativity20pt. max														
Neatness10pt. max														
Layout/Organization10pt. max														
Documentation20pt. max														
Subtotal														
Rules Violation.....Minus 20 points														
Total.....100pts. max														

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

Evaluator's Signature

Printed Name

PA-TSA STENCIL LOGO DESIGN

Official Rating Form

LEVEL: MS or HS (Circle one)

ENTRANT'S ID																			
EVALUATION CRITERIA																			
Presentation 20 pts. max Display meets specs (5pts.) Creative design & neatly displayed (10pts.) Completed specification sheet (5pts.)																			
Planning 20 pts. max Design communicates effectively (7pts.) Originality of design (7pts.) Comprehensive layout (6pts.)																			
Prepress 20 pts. max Screening matches layout (8pts.) Screen/film preparation (12pts.)																			
Presswork 15 pts. max Ink density & blemish control (5pts.) Registration & positioning (5pts.) Clean background (5pts.)																			
Post Press 15 pts. max Proofs (5pts.) ∞ 25 paper proof copies of shirt design ∞ 1 paper proof of web design ∞ 1 paper proof of publication design Clean B/W copies (color separation) of shirt, web and publication designs (5pts.) Single item of other material (5pts.)																			
Technical Paper 10 pts. max Comprehensive, neat (5pts.) Meets specs (5pts.)																			
Total 100 pts. max																			

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

Evaluator's Signature