

design,

build,

soar.

2015 NJ TSA High School Supplement

Technology Student Association



FLIGHT ENDURANCE

Cover by:

Jacquelyn Liu

West Morris High School

1st Place Promotional Graphics

NJ TSA 2014 State Conference

2014-2015 New Jersey TSA Executive Committee

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Mr. Henry Harms, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

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Ms. Michelle Ordini, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

Foreword

The diverse competitive events that are listed within this booklet are open to TSA chapters affiliated through registration with the New Jersey state office of TSA, completed by January 20, 2015. The High School State Conference will be held at The College of New Jersey on **(TBA)**.

How this booklet works

The *NJ Supplement* works in conjunction with the National TSA Competitive Events Guide, which you will receive access to online after affiliation with the National TSA Office has taken place.

This booklet presents the competitive events offered at the NJ State Conference in alphabetical order as well as the maximum number of participants or teams permitted to compete from each chapter. Each New Jersey competitive event in this booklet lists only the modifications from the National guidelines. Substitute the NJ modification in this booklet for the number or letter on the National guidelines to ensure that your chapter meets the guidelines for the NJ Competitive Events.

Competitive Event Categories

Competitive Events are organized according to the requirements for student participation in those competitions. There are three categories: **On-Site, Pre-Conference and Static**.

“On-site Events” require student participation on conference day. Some On-Site Events may even include components that must be completed and submitted prior to conference day. Because of the time commitment involved, students may participate in only one On-Site Event (and no more than four total events).

“Pre-Conference Events” require that entries be submitted prior to the conference, on a designated submission date established by NJ TSA. These entries are judged days prior to the conference and put on display the day of the conference. Some Pre-Conference events may have components or presentations that also take place the day of the conference.

“Static Events” require students to submit entries on conference day, however, students are not required to remain with their entries or make presentations. Static Events usually consist of students creating a display or prototype. These entries are checked-in the morning of the conference in the designated event room listed in the conference program. Judging takes place behind closed doors. After judging is finished, all entries are put on display for the remainder of the conference day.

Please be sure to read all sections of the *Supplement* carefully!

It is the hope of the NJ TSA Executive Committee that this guide will enable teachers, advisors, students and competitive event judges to be better prepared for participation at the State Conference this spring.

Any questions may be directed to Ms. Alison Goeke, NJ TSA State Advisor at (609)771-3244 or goeke2@tcnj.edu or Henry Harms, NJ TSA Competitive Event Coordinator, at harms@tcnj.edu.

General Rules Governing Competitive Events

I. HIGH SCHOOL EVENTS

The officially approved **Level II** New Jersey TSA Competitive Events for high school are:

ON-SITE	PRE-CONFERENCE	STATIC
Animatronics 2 teams per chapter	Career Preparation 2 individuals per chapter	Architectural Renovation 1 individual or team per chapter
Biotechnology Design 1 team per chapter	Computer-Aided Design (CAD), 2D, Architecture 1 individual per chapter	Manufacturing Prototype 2 teams per chapter
Chapter Team 1 team of 6 members per chapter	Computer-Aided Design (CAD), 3D, Engineering 1 individual per chapter	System Control Technology 1 team of 3 per chapter
Children's Stories – <i>NEW!</i> 1 team per chapter	Computer Numerical Control (CNC) Production 1 team of 2 members per chapter	
Debating Technological Issues 1 team of 2 members per chapter	Desktop Publishing 1 individual per chapter	
Engineering Design 1 team of 3-5 members per chapter	Digital Video Production 1 team per chapter	
Essays on Technology 1 individual per chapter	Dragster Design 2 individuals per chapter <i>Top 16 cars are raced on conference day</i>	
Extemporaneous Speech 1 individual per chapter	Music Production 1 team per chapter	
**Fashion Design 2 teams of 2-4 members per chapter <i>Portfolio/garments submitted Pre-Conference</i>	On Demand Video 1 team of 2 or more members per chapter	
Flight Endurance 1 individual per chapter	Photographic Technology 1 individual per chapter	
**Future Technology Teacher 2 individuals per chapter <i>Binder submitted Pre-Conference</i>	Promotional Graphics 2 individuals per chapter	
Prepared Presentation 1 individual per chapter	SciVis 1 team per chapter	
**Structural Design and Engineering 1 team of 2 per chapter	Software Development 2 teams per chapter	
Technical Sketching and Application 2 individuals per chapter	Transportation Modeling 2 individuals per chapter	
Technology Bowl 1 team of 3 per chapter	Video Game Design 1 team per chapter	
Technology Problem Solving 1 team of 2 per chapter	Webmaster 1 team of 3-5 members per chapter	
VEX Robotics 1 team of up to 6 members per chapter		
**Event has both Pre-Conference and On-Site Components.		

II. PROJECT SUBMISSION

- A. On-site events require students to submit entries, make presentations and/or participate/compete in activities *at* the conference.
- B. Static events require students to submit a display or prototype the day of the conference, however, there is no presentation component along with the entry.
- C. Pre-Conference events require projects to be submitted and judged *prior to* the conference

- 1. Pre-Conference entries mailed must be received by **(TBA)**.

Send to:
NJ TSA/Alison Goeke
The College of New Jersey
2000 Pennington Rd
Armstrong 103
Ewing, NJ 08628

Please call (609)771-3244 or email (tsa@tcnj.edu) the NJ TSA office to indicate description/quantity of items being mailed and expected delivery date.

- 2. Entries dropped off at the NJ TSA office at The College of New Jersey must be received by **(TBA)**. Please call (609)771-3244 or email (tsa@tcnj.edu) the TSA office to arrange time for delivery.
- 3. Entries dropped off at the Northern NJ site (NJ TSA Northern Regional Office, 16 Deer Trail Lake Rd., Stockholm, NJ 07460) must be received by **(TBA)**. Please call John McConnell at 973-903-1970 or email him at johnsmcconnell@gmail.com to arrange time for delivery.

- Items received after these dates may not be included in competitions.
- Mailed deliveries should include provision for obtaining **proof of delivery**.
- Packages should include a label or packing slip describing contents.

III. PARTICIPATION IN COMPETITIVE EVENTS

- A. TSA members may only register and participate in **ONE On-site event**, and no more than **FOUR total events**.
- B. Students must be registered at the state conference in order to enter and become finalists/winners in a competition. **NO ON-SITE OR LATE REGISTRATIONS WILL BE ACCEPTED.**
- C. **No substitutions will be accepted after registration closes, or at the conference.** Substitutions in team events will be accepted only from pre-registered applicants, and only under extenuating circumstances.

- D. **No school or individual names labeled on projects** except for Webmaster and Career Preparation, which require school information. **Otherwise, only ID#'s are to be used.** Upon registering students online, they are automatically assigned an ID#. **This number needs to be labeled on every piece of a project/entry (i.e. binders, CD's/DVD's, USB drives, models, displays, copyright/release forms, etc.).**
- E. Please be sure to make a copy of all video/electronic files (e.g. Music Production, Video Game Design, etc.) for yourself before the project is submitted.
- F. Projects/entries are picked up at the time stated in the conference program and or event display room. All entries not accounted for will be discarded the following day if no arrangements have been made with the NJ TSA office otherwise.
- G. Audio visual equipment will be provided for competitive events that require it.
- H. NJ TSA is not responsible for compatibility issues with electronic files. Judges will not be permitted to install programs to view files.
- I. Proper procedures for citing material taken from other sources must be followed as outlined in specific competitive event guidelines. Copyright procedures, checklist and forms must be completed and submitted with entries when necessary.
- J. No electronic communication devices of any kind are permitted during competitions and will result in disqualification.
- K. No one will be permitted to leave a test event and return unless otherwise instructed by judges.
- L. The maximum size of a team is 6 members, unless otherwise designated in a competition's eligibility guideline.
- M. In addition to the information found in the NJ Supplement, participants are responsible for knowing any updates, changes or clarifications that are made to competitive events prior to participation. This information is posted on both the National TSA and NJ TSA websites. It is crucial that students check the Updates and Clarifications page of BOTH the NJ and National TSA websites. DIFFERENT information is posted on each site.

IV. COMPETITIVE EVENTS ATTIRE

ALL STUDENTS ATTENDING THE CONFERENCE **MUST** wear either official TSA or business-like attire. Your cooperation with this policy will assist in providing a positive image for the organization and its members. *For more info go to: <http://www.tsaweb.org/Dress-Code>*

NOTE: All students participating at the 2015 National TSA Conference will be required to wear the Official TSA Shirt (royal blue). All students participating at the 2016 NJ TSA State Conference will be required to wear the Official TSA Shirt.

- A. Official TSA Attire:
 - Blazer: navy blue with official TSA patch
 - Tie: scarlet red imprinted with official TSA logo (for males only)
 - Shirt or blouse: Official TSA Shirt (royal blue) (A white button-down with turn down collar may be substituted for the Official TSA Shirt at the NJ State Conference)
 - Pants or skirt: light gray
 - Dark socks: males only (black or dark blue)
 - Shoes: black dress shoes (unacceptable: athletic shoes, combat or work boots)
 - Sandals: females only may wear black open toe shoes or sandals

- B. Business-like attire is considered to minimally include:
collared shirt/blouse
long pants (no shorts or jeans)
dresses/skirts
socks/hosiery
appropriate footwear
- C. The official NJ TSA or National TSA Polo Shirt may be substituted for a collared shirt/blouse.

Students NOT wearing official TSA or business-like attire *will lose 20 points from total score of each event entered and will not be granted entry into the awards ceremony.*

A 20 point deduction will also result from the wearing of hats.

All individuals attending the awards ceremony must present their official State Conference ID Badge provided to them at registration. Anyone not in possession of their badge will not be admitted to the Awards Ceremony.

V. PROPERTY DAMAGE OR LOSS

The College of New Jersey and TSA are not responsible for damage to or loss of property brought to the conference. Please remind students there is no need for them to bring any personal items such as laptops to the conference and that their personal belongings are their sole responsibility that they should not be left behind in any location on campus.

VI. SCHOLARSHIPS AND AWARDS

New Jersey TSA Scholarship

\$500 scholarship supports the mission of TSA by encouraging NJ TSA members to continue their education.

Criteria

- Be a senior and have participated in an active TSA chapter for a minimum of two consecutive years.
- Served or currently serving as a TSA officer at the local, state and/or national level for a minimum of one academic year.
- Attend and participate in at least two TSA conferences at the state level.

Application must include:

- A signed cover letter containing:
 1. A detailed description of the applicant's involvement in TSA based on the above criteria
 2. A list of technology education engineering courses completed and in progress.
 3. SAT score and/or ACT score
 4. GPA (4.0 scale) and if available high school class rank (indicate how many in class)

- No more than three letters of reference, one of which must come from a technology education teacher.
- A single-spaced, one page typed essay on his or her career plans.

Application must be submitted by

5:00pm on **(TBA)** to:

Alison Goeke, State Advisor

New Jersey Technology Student Association

The College of New Jersey

103 Armstrong Hall, PO Box 7718

Ewing, NJ 08628-0718

TSA Achievement Program

The TSA Achievement Program (bronze, silver, gold awards) is designed to motivate and recognize student members for high effort in a school's technology education program.

Bronze, silver, and gold pins will be awarded at the State Conference. Please provide Alison Goeke (goeke2@tcnj.edu/Fax#609-771-3330) with a list of any award winners and their Activity Resumes by 5:00pm on **(TBA)**. Go to <http://www.tsaweb.org/Student-Achievement-Awards> to view and print forms.

TSA Technology Honor Society

The TSA Technology Honor Society recognizes TSA members who excel in academics, leadership, and service to their school and community. The TSA Technology Honor Society is (1) an opportunity for student members to be recognized for their efforts and (2) designed to recognize TSA members who exemplify the high ideals of academics.

Go to <http://www.tsaweb.org/Student-Achievement-Awards> to view and print forms.

Please send completed forms to Alison Goeke (goeke2@tcnj.edu/Fax#609-771-3330) by 5:00pm on **(TBA)**.

Johnson & Wales University

Scholarships will be awarded to 1st, 2nd and 3rd Place winners in the following events:

- Computer-Aided Design 2D, 3D
- Promotional Graphics
- Technical Sketching & Applications
- Webmaster

Scholarship amounts for use at Johnson & Wales University are as follows:

1 st place winner	\$1000
2 nd place winner	\$750
3 rd place winner	\$500

VII. IMPORTANT DATES AND DEADLINES

(TBA)

- State Conference Registration OPENS
- Design Problems posted on NJ TSA website (<http://njtsa.pages.tcnj.edu/>)

(TBA)

- On Demand Video theme posted at 5pm on NJ TSA website (<http://njtsa.pages.tcnj.edu/>)

(TBA)

- On Demand Video entries must be received at the NJ TSA office or postmarked by 5pm

(TBA)

- State Conference Registration CLOSES at 5pm (absolutely no changes can be made after this time).

(TBA)

- All Pre-Conference entries delivered to the Northern NJ Drop-Off Site must be received.

(TBA)

- All Pre-Conference entries must be received at the NJ TSA office.

(TBA)

- NJ TSA Scholarship, Achievement Award, Technology Honor Society and State Officer Nominations must be received at the NJ TSA office by 5pm.

(TBA)

- NJ TSA High School State Conference, The College of New Jersey

June 28-July 2, 2015

- National TSA Conference, Dallas, Texas

Plan now to attend the
37th Annual
National TSA Conference
June 28-July 2, 2015
Gaylord Texan Resort and Convention Center
Dallas, Texas
Theme: *"Designing Your Dreams"*

Level II – High School Events

Animatronics

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	A. 2 teams per chapter B. All teams will give a presentation up to 5 minutes in length. There is a limit of three (3) representatives per team for the presentation.
TIME LIMITS	No change
PROCEDURE:	No change
REGULATIONS:	No change
EVALUATION:	No change. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>

Architectural Renovation

Static Event

2015 Design Problem: <http://www.tsaweb.org/Themes-and-Problems>

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual or team per chapter
TIME LIMITS	No change
PROCEDURE:	C. No semifinalists. Winners are announced at Awards Ceremony. Delete D & E. No interview.
REGULATIONS:	No change
EVALUATION:	Evaluation is based on 240 points earned for the portfolio, the design and the model. No interview. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>

Biotechnology Design

On-Site Event

2015 Area of Focus: "The Role of Biotechnology in Forensics"

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	A. 1 team per chapter. B. No semifinalists. All teams give presentation.
TIME LIMITS	B. No semifinalists. All teams will give a presentation up to 5 minutes in length. Two (2) representatives from each team will give the presentation.
PROCEDURE:	C. No semifinalists. A list of all times for all team presentations will be listed in random order and posted. D. Two (2) representatives from each team report to event area at the time posted for their multimedia presentation. E. No semifinalists. Two (2) team representatives give the presentation. Up to five (5) minutes will be provided for the presentation.
REGULATIONS:	E. No semifinalists. Each team must send two (2) representatives to participate in the interview/presentation, which is not to exceed five (5) minutes. F. No semifinalists. All teams give a presentation. A computer for the multimedia presentation will be provided by NJ TSA. Teams must bring their presentation on a removable device such as CD, DVD, or USB drive.
EVALUATION:	Evaluation is based on documentation, the display, and the presentation/interview. No semifinalists. All teams give presentation. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>

Career Preparation

Pre-Conference Event

2015 Students will select and research one (1) of the following careers:

- Aeronautical Engineer
- Computer Information Security Specialist Professional (CISSP)
- Geographical Information Systems (GIS) Analyst

OVERVIEW:	No semifinalists. Winners announced at the Awards Ceremony. No on-site interview. Participants select and research <u>one (1) of the careers noted</u> , preparing a resume and cover letter for the chosen career. Resume and cover letter submitted Pre-Conference.
PURPOSE:	Participants select and research <u>one (1) of the careers noted</u> , preparing a resume and cover letter for the chosen career. Resume and cover letter submitted Pre-Conference. No interview. No semifinalists. Winners announced at the Awards Ceremony.
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	A. Resume and cover letter are submitted Pre-Conference. Delete B.
PROCEDURE:	A. Participants select and research <u>one (1) of the careers noted</u> , preparing a resume and cover letter for the chosen career. B. one (1) resume and cover letter are submitted Pre-Conference. Delete C-E.
REGULATIONS:	A. Entries are submitted Pre-Conference. D-E. There is no on-site component.
EVALUATION:	Evaluation is based on 80 points. No interview. Note: Students who enter this event at the National TSA Conference are required to research and submit resumes and cover letters for all three (3) careers noted above.

Chapter Team

On-Site Event

OVERVIEW:	No semifinals. All teams make the oral presentation.
PURPOSE:	No change
ELIGIBILITY:	1 team of six (6) members per chapter. Team members do not have to be elected officers of the local chapter. No semifinalists. All teams take the written test and participate in the oral presentation.
TIME LIMITS	B. No semifinalists. Time-related penalties apply.
ATTIRE:	Official TSA Attire is required for this event. For details, please see pages 6-7 of this document.
PROCEDURE:	C-D. All teams will make the oral presentation.
REGULATIONS:	I. No semifinalists. All teams participate in the oral presentation.
EVALUATION:	No semifinalists. All teams will be evaluated according to the criteria on the official rating form.

Children's Stories

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter. A team of one member is permitted.
TIME LIMITS	No semifinalists. All teams will read story and answer judges' questions.
PROCEDURE:	E-G. No semifinalists. All teams will participate in the reading and interview. I. No finalists. 1 st , 2 nd and 3 rd place winners announced at Awards Ceremony.
REGULATIONS:	I. No semifinalists. All teams will participate in the reading and interview.
EVALUATION:	Evaluation is based on 180 points for the Documentation, Story, Reading and Interview. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>

Computer-Aided Design (CAD), 2D, Architecture

Pre-Conference Event

2015 Design Problem will be posted on the NJ TSA website on **(TBA)**

OVERVIEW:	No change This design problem will be posted on the NJ TSA website on (TBA) .
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete A-C. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component. Design problem will be posted on the NJ TSA website on (TBA) .
PROCEDURE:	Delete A-H. Entries are submitted Pre-Conference. Entries are picked up at the time and place stated in the conference program.
REGULATIONS:	Delete A-D. Delete F-G. Designs submitted on a maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	Delete "on screen."

Computer-Aided Design (CAD), 3D, Engineering
Pre-Conference Event
 2015 Design Problem will be posted on the NJ TSA website on **(TBA)**

OVERVIEW:	No change This design problem will be posted on the NJ TSA website on (TBA) .
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete A-C. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component. Design problem will be posted on the NJTSA website on (TBA) .
PROCEDURE:	Delete A-H. Entries are submitted Pre-Conference. Entries are picked up at the time and place stated in the conference program.
REGULATIONS:	Delete A-D. Delete F-G. Designs submitted on a maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	Delete "on screen."

Computer Numerical Control (CNC) Production

Pre-Conference Event

2015 Design Problem: <http://www.tsaweb.org/Themes-and-Problems>

OVERVIEW:	Evaluation is based on design and documentation only. No machined samples are submitted. Documentation is submitted Pre-Conference.
PURPOSE:	Participants demonstrate the use of critical thinking skills to design a device, appropriate materials and fabrication techniques for CNC production.
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS	Delete B-E. Documentation is submitted Pre-Conference.
PROCEDURE:	Delete A-L. Documentation is submitted Pre-Conference. No machined samples are submitted.
REGULATIONS:	A.5. Change “photographic images” to “3D drawings.” Delete A.6. B. Items listed under “Materials” must be incorporated into the design of the device. Delete C.
EVALUATION:	Evaluation is based on 150 points for the documentation and component analysis.

Debating Technological Issues

On-Site Event

2015 Topic: One-to-one laptops/devices for students in public education

- Subtopic 1 - Should schools purchase devices (laptops/other) for all students in K-12 education?
- Subtopic 2 - Is the cost of devices for all K-12 students worth the investment?
- Subtopic 3 - If one-to-one devices are purchased for K-12 students, how can faculty/staff ensure they will only be used for educational purposes?

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS	No change
PROCEDURE:	Delete P. Q. No semifinalists. Winners announced at Awards Ceremony. S. No finalists. Winners announced at Awards Ceremony.
REGULATIONS:	I. No observers allowed in debate room. No semifinalists.
EVALUATION:	No change

Desktop Publishing

Pre-Conference Event

OVERVIEW:	Delete “All participants work to solve an onsite problem.” Portfolio and USB drive containing news release, newsletter and poster submitted Pre-Conference.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete B-C. No on-site component.
PROCEDURE:	Delete A-G. No on-site component. Portfolio and USB drive containing the PDF file are submitted Pre-Conference.
REGULATIONS:	Delete B. <i>No school or individual names labeled on projects; only ID#’s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	Evaluation is based on points earned for News Release, Newsletter, and Poster for a total of 100 points. No on-site problem.

Digital Video Production
Pre-Conference Event
 2015 Theme: "Cyber Spying"

OVERVIEW:	No change Note: NJ TSA reserves the right to eliminate any entries that contain inappropriate content. These entries will not be judged.
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter
TIME LIMITS	No change. Film must be submitted on a DVD that works in a standard DVD player.
PROCEDURE:	A. Entries submitted Pre-Conference. C. 1 st , 2 nd and 3 rd place winners are announced at Awards Ceremony.
REGULATIONS:	C. Entries are picked up by participants at the time and place stated in the conference program. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	No change

Dragster Design

Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	B. Dragster and drawing submitted Pre-Conference. Cars that do not meet specifications will NOT be raced. Delete C. No interview.
PROCEDURE:	A. Dragster and drawing are submitted Pre-Conference. Delete F. No interview.
REGULATIONS:	<p>No change</p> <p>Note: The minimum and maximum wheel base noted on page 165 is correct. Placement of the axle hole from the front and rear of the car should be followed. (Note: Regardless of the maximum allowable wheelbase, the axle holes must be in the body of the car and placed more than 9mm from each end of the car.)</p> <p><u>PLEASE NOTE:</u></p> <ul style="list-style-type: none"> • The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference. • <u>Cars not meeting specs WILL BE DISQUALIFIED from competition.</u> • A caliper will be used for all measurements
EVALUATION:	<p>Evaluation is based on 105 points. No interview. No wind tunnel test.</p> <p>The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference. <u>Cars not meeting specs WILL BE DISQUALIFIED from competition.</u></p> <p><i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i></p> <p>Place ID# on drawings and directly on dragster. It is recommend ID#'s are placed on bottom or back side of dragster with tape or label.</p>

Engineering Design

On-Site Event

OVERVIEW:	No semifinalists. All teams give a timed presentation
PURPOSE:	No change
ELIGIBILITY:	1 team of 3-5 members per chapter
TIME LIMITS	B. No semifinalists. All teams will give a presentation of up to 5 minutes in length.
PROCEDURE:	B-D. No semifinalists. All teams will give a presentation of up to 5 minutes in length at the time designated by the event coordinator at check-in.
REGULATIONS:	D. No semifinalists. All teams give presentation/interview.
EVALUATION:	No semifinalists. All teams participate in presentation/interview.

Essays on Technology

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	G. 1 st . 2 nd and 3 rd place winners announced at Awards Ceremony.
REGULATIONS:	G. All essays become the property of NJ TSA
EVALUATION:	No change

Extemporaneous Speech

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	Delete C.2, C.3, H, I, J. No semifinalists.
REGULATIONS:	E. No observers will be permitted. No semifinalists.
EVALUATION:	No change

Fashion Design

On-Site Event

2015 Design Problem: <http://www.tsaweb.org/Themes-and-Problems>

OVERVIEW:	Portfolio, patterns, accessories and garments are submitted Pre-Conference . No semifinalists. All teams give presentation on conference day.
PURPOSE:	No change
ELIGIBILITY:	2 teams of 2-4 members per chapter
TIME LIMITS	B. No semifinalists. All teams give presentation.
PROCEDURE:	A-B. Entries are submitted Pre-Conference. C, D, F, H. No semifinalists. All teams give presentation. Winners announced at Awards Ceremony.
REGULATIONS:	E. No semifinalists. All teams give presentation. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on all parts of student projects.</i> Labels/tape are recommended for labeling garments, documentation, and on the outside of submission container and/or garment bag.
EVALUATION:	No semifinalists. Winners announced at Awards Ceremony.

Flight Endurance

On-Site Event

OVERVIEW:	No change Plane, portfolio and flight box are built off-site and submitted for judging on conference day.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter, one entry per individual
TIME LIMITS	B. Participants are provided a minimum of 20 minutes for trim flights at the event's site.
PROCEDURE:	K. No finalists. 1 st , 2 nd and 3 rd place winners announced at Awards Ceremony. Participants pick-up planes at time/location specified by event coordinator.
REGULATIONS:	No change PLEASE NOTE: B. Plane must be contained in a flight box, which students must provide.
EVALUATION:	No change. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i> Place ID# on drawings and directly on plane. It is recommend ID#'s are placed on bottom or back side of plane with tape or label.

Future Technology Teacher On-Site Event

OVERVIEW:	No change
PURPOSE	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	B. Portfolio submitted Pre-Conference. C. No semifinalists. All participants make presentation on site.
PROCEDURE:	F. Portfolio submitted Pre-Conference. G. No semifinalists. H. No semifinalists. All participants present lesson plan/activity.
REGULATIONS:	G. Computer/projector will be provided by NJ TSA. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	No change

Manufacturing Prototype Static Event 2015 Product: "Child's pull toy"

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 teams per chapter. 1 entry per team
TIME LIMITS	No change
PROCEDURE:	No change
REGULATIONS:	No change
EVALUATION:	No change. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>

Music Production

Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter. Team work is strongly encouraged, but a team of 1 member is permitted.
TIME LIMITS	D. No semifinalists. No interview. Entries submitted Pre-Conference.
PROCEDURE:	A. Entries submitted Pre-Conference. Delete C-D. No semifinalists. No interview.
REGULATIONS:	E. Entries are picked up by participants at the time and place stated in the conference program.
EVALUATION:	Evaluation is based on 100 points. No interview.
	<p><i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i></p> <p>ID#'s should be labeled on CD, CD case (if included) and portfolio.</p>

On Demand Video

Pre-Conference Event

2015 Theme will be posted on the NJ TSA website at 5pm on (TBA).

OVERVIEW:	The theme and any required criteria will be announced on the NJ TSA website at 5pm on (TBA) . Participants will write, shoot and edit a sixty (60) second video. The video and notebook must be submitted by 5pm on (TBA) . Entries will be judged and put on display at the State Conference.
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 or more members per chapter. One entry per team.
TIME LIMITS	Delete A, C. Theme will be posted on the NJ TSA website at 5pm on (TBA) . Entries must be received at the NJ TSA Office or postmarked by 5pm on (TBA) .
PROCEDURE:	A. Notebook and video submitted Pre-Conference by (TBA) . B. Theme will be posted on the NJ-TSA website on (TBA) . Delete E. 1 st , 2 nd and 3 rd place winners announced at Awards Ceremony.
REGULATIONS:	B. Entries are picked up by participants at the time and place stated in the conference program. H. Video and portfolio are submitted Pre-Conference.
EVALUATION:	No change

Photographic Technology
Pre-Conference Event
2015 Theme: "Innovation"

OVERVIEW:	No semifinalists. Winners will be announced at Awards Ceremony. Documentation portfolio and multimedia presentation submitted Pre-Conference.
PURPOSE:	No semifinalists.
ELIGIBILITY:	1 individual per chapter, 1 entry per individual
TIME LIMITS	No change
PROCEDURE:	A. Entries are submitted Pre-Conference. B. No semifinalists. Delete C – K. I. Multimedia presentation submitted on a CD or DVD and must include 15 photos. No semifinalists. All individuals submit the multimedia presentation Pre-Conference.
REGULATIONS:	No change. Please read Regulations carefully, paying close attention to size requirements. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i> ID#'s should be labeled on portfolio and CD/DVD.
EVALUATION:	Evaluation is based on 150 points earned for the documentation portfolio and multimedia presentation. There is no On-Site component.

Prepared Presentation
On-Site Event
 2015 Theme: "Designing Your Dreams"

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	D. No observers will be permitted. Delete E-G.
REGULATIONS:	F. NJ TSA will provide a computer, projector and screen. All files must be on a USB drive or CD/DVD. G. NJ TSA will provide table.
EVALUATION:	No change

Promotional Graphics
Pre-Conference Event
 2015 Challenge: <http://www.tsaweb.org/Themes-and-Problems>

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter, 1 entry each
TIME LIMITS	No change
PROCEDURE:	A. Entries submitted Pre-Conference. Submit entry in PDF format via email to tsachall@tcnj.edu by 12 midnight EST on (TBA). The subject line of the email must be: Promotional Graphic entry for (student ID#). Example: Promotional Graphic entry for 100001. C. No finalists. 1 st , 2 nd and 3 rd place winners are announced at the Awards Ceremony.
REGULATIONS:	I. All entries become the property of NJ TSA. <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	No change.

SciVis
Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter.
TIME LIMITS	Delete D. No semifinalists. Entries submitted Pre-Conference. No interview/presentation.
PROCEDURE:	Delete A-D. Entries submitted Pre-Conference.
REGULATIONS:	<p>Delete E. No presentations. Entries submitted Pre-Conference. G. Entries are picked up by participants at the time and place stated in the conference program.</p> <p><i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i></p>
EVALUATION:	Evaluation is based on 80 points for the Portfolio and Visualization. No presentation.

Software Development
Pre-Conference Event

OVERVIEW:	No semifinalists. No presentation. Portfolio and CD/DVD submitted Pre-Conference.
PURPOSE:	No change
ELIGIBILITY:	2 teams per chapter
TIME LIMITS	B. No semifinalists. No presentation.
PROCEDURE:	<p>A. Entries submitted Pre-Conference. B-D. No semifinalists. No presentations. Winners announced at Awards Ceremony.</p>
REGULATIONS:	E. Entries are picked up by participants at the time and place stated in the conference program.
EVALUATION:	Evaluation is based on 110 points for the Documentation and Software Design. No presentation.

Structural Design and Engineering

On-Site Event

OVERVIEW:	National TSA will post specifications and details on November 1, 2014. NJ TSA will provide State guidelines and additional information at that time.
PURPOSE:	
ELIGIBILITY:	1 team of 2 members per chapter, one entry per team
TIME LIMITS	
ATTIRE and SAFETY EYEWEAR	
PROCEDURE:	
EVALUATION:	

System Control Technology

Static Event

2015 Design Problem will be posted on the NJ TSA website on **(TBA)**

OVERVIEW:	Delete “on site.” Model is constructed off-site during the school year.
PURPOSE:	No change
ELIGIBILITY:	1 team of 3 members per chapter
TIME LIMITS	Design problem will be posted on the NJ TSA website on (TBA) . Delete A. Model is constructed off-site. No on-site portion. B. There will be a 15 minute set up time (students set up the device and leave instructions for evaluators to operate the device). Delete C. D. Model is constructed off-site
PROCEDURE:	Delete B. C. Inventor’s log is completed off-site. Delete D-E.
REGULATIONS:	No change
EVALUATION:	Stand-alone project. Instructions must be left for evaluators to operate the device.

Technical Sketching and Application

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	B. No semifinalists. All participants have 1 hour for on-site problem.
PROCEDURE:	C. No semifinalists. Winners will be announced at Awards Ceremony. D. No semifinalists. Winners will be announced at Awards Ceremony. All participants take the written test and solve on-site problem.
REGULATIONS:	B-E. NJ TSA will provide all necessary materials. No semifinalists.
EVALUATION:	Delete A-B. Evaluation is based on 50 point written test and 50 point sketch/solution to technical problem.

Technology Bowl

On-Site Event

OVERVIEW:	All participants will complete a written exam and then participate in the oral event.
PURPOSE:	No change
ELIGIBILITY:	1 team of 3 per chapter
TIME LIMITS	A. 45 minutes B. All teams will participate in the oral competition.
PROCEDURE:	<p>Delete A-K. Follow the procedures listed below:</p> <ul style="list-style-type: none"> A. Following the written test, team members will report to the oral event area holding room for briefing at the designated time. After briefing, advisors must leave and the team will remain in the holding room until called for competition. Teams may visit with other teams; however, <u>no advisors or visitors</u> may enter the holding room. B. No audience members are permitted into the oral event area. C. When instructed to do so, two (2) teams will enter the event area and be seated according to instructions. D. When a team has been defeated in any round of the oral event, the team is out of the competition. E. Questions will be drawn, as needed, from a card file resource bank. F. A team's total score is derived from the correct answers to the questions asked. For each correct answer, a team will receive ten (10) points. When a question has been completely read and a team is recognized to answer, if the team does not answer or answers incorrectly, five (5) points will be deducted from the team's score. In this instance, the other team does not have the opportunity to respond to this question, and the next question is read for both teams. If a question is being read and a team member presses the button before the question is finished, the member must answer completely as stated on the answer card. If the answer given is incorrect, the entire question will be read for the other team. G. A total of twelve (12) questions will be asked per round. No questions will be repeated in another round. In the case of the tie, five (5) additional questions will be asked. This procedure will continue until the tie is broken. The questions will be picked at random from the basic areas tested. H. <u>Bonus Question</u> There will be one additional question (bonus question). The bonus question will be announced, and the team that answers it correctly will have the opportunity to answer one

	<p>additional question. This is the only time when team members may consult with each other before giving an answer. The team will have ten (10) seconds to give its answer. If a team gives an incorrect answer to the bonus question, then the question will be read to the other team. Bonus point scoring: If a team answers the bonus correctly, that team receives fifteen (15) points; if a team answers the bonus incorrectly, that team loses five (5) points from its score.</p> <ol style="list-style-type: none"> I. A panel of evaluators will be available to respond to questions concerning acceptable answers. <ol style="list-style-type: none"> 1. Rulings on acceptable answers will be made only during the round in question. 2. Rulings will be made immediately, to do one of the following: <ol style="list-style-type: none"> a. Accept only the answers listed on the card. b. Accept the student's answer and renew points, or remove the question and read another in its place. c. The rulings of the panel will be final.
REGULATIONS:	<p>A-B. Delete. Follow regulations listed below:</p> <ol style="list-style-type: none"> A. No transmitting or recording devices, including cell phones, will be permitted in the event area. No prompting will be permitted. B. The team member who "buzzes in" will have five (5) seconds to answer the question, without discussion. C. The team that answers the bonus question will be allowed ten (10) seconds to discuss the extra question and give an answer. D. After a question is read, the competing teams will have ten (10) seconds to answer. If neither team can answer the question, then another question will be read. E. If a team member "buzzes in" before a question is finished being read, that member must give the exact answer as printed on the card.
EVALUATION:	<p>A-C. Delete. Follow evaluation listed below:</p> <p>Evaluation is based on the total points from the three written tests plus the total points from the oral competition. Awards will be given to the top three (3) teams</p>

Technology Problem Solving

On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 per chapter
TIME LIMITS	No change
PROCEDURE:	C. NJ TSA will provide all necessary tools and materials. Each team member must bring his/her own safety glasses. E. NJ TSA will provide all necessary tools and materials.
REGULATIONS:	B. Only the materials issued to each team by the event coordinator may be used in the development of the solution.
EVALUATION:	No change

Transportation Modeling

Pre-Conference Event

2015 Design Theme: "Helicopters"

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	No change
PROCEDURE:	A. Entries are submitted Pre-Conference.
REGULATIONS:	No change <i>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</i>
EVALUATION:	No change

VEX Robotics

On-Site Event

OVERVIEW:	Go to http://www.tsaweb.org/Vex-Robotics-Competition Questions related to VEX should be directed to: Hillary Lee at the National TSA Office: hlee@tsaweb.org or Henry Harms, NJ TSA Competitive Event Coordinator: harms@tcnj.edu
PURPOSE:	
ELIGIBILITY:	1 team of up to 6 members per chapter.
TIME LIMITS	
PROCEDURE:	
REGULATIONS:	
EVALUATION:	

Video Game Design

Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter, with a minimum of 2 individuals per team
TIME LIMITS	No change
PROCEDURE:	A. Entries submitted Pre-Conference. B. No semifinalists. Winners announced at Awards Ceremony. Delete C-D. No semifinalists. No interview. Entry submitted Pre-Conference.
REGULATIONS:	C. PLEASE NOTE: The Game must execute and be played directly from the DVD. Entries will be evaluated using only a PC platform. Participants will not be permitted to install anything on evaluators' computers. F. Entries are picked up by participants at the time and place stated in the conference program.
EVALUATION:	Evaluation is based on 100 points for Documentation and Design. A possible 15 extra points may be given for exceptional game features. No presentation/interview.

Webmaster

Pre-Conference Event

OVERVIEW:	A copy of the design brief can be found at: http://www.tsaweb.org/Themes-and-Problems Delete “Semifinalists will participate in an on-site interview....”
PURPOSE:	No change
ELIGIBILITY:	1 team of 3-5 members per chapter. No semifinalists. No interview. Winners announced at Awards Ceremony.
TIME LIMITS	A-B. Change date from May 15 to (TBA) Send URL to tsachall@tcnj.edu . Delete C.
PROCEDURE:	B. All questions must be emailed to goeke2@tcnj.edu or harms@tcnj.edu Delete D-H
REGULATIONS:	Delete K. No interview.
EVALUATION:	Delete B. No interview. Evaluation based on 130 points. URL’s MUST be emailed to Alison Goeke, State Advisor (tsachall@tcnj.edu) by 12 midnight EST (TBA) . All emails will be time stamped and serve as proof of submitting project on time. Be sure to include ID# & Webmaster Submission in subject line.