

Pennsylvania TSA Handbook 2013 - 2014



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Section 1 What Is TSA?

The organization, originally entitled the American Industrial Arts Student Association (AIASA), was started by Industrial Arts teachers who wanted to provide opportunities for their students to be recognized for their accomplishments.

It was officially sponsored by the American Industrial Arts Association for a number of years, became an independent nonprofit corporation in 1978; and in 1988, the name was changed to the Technology Student Association (TSA) to more accurately reflect that which students are now being taught – the technologies of our time. Members have the opportunity to compare their technology competencies with other students through Local, Regional, State and National competitions.

Section 2 Goals and Purpose of TSA

The Technology Student Association Constitution identifies the general and specific purposes of TSA. These purposes of the organization are recognized as such and guide the Association in its actions and activities. In an encapsulated form, these goals and purposes are identified as:

2.01 LEADERSHIP

TSA provides the opportunity for LEADERSHIP development training. Throughout individual and group action, members develop the ability to plan, organize and carry out worthy activities and projects together. Emphasis is placed on social development, civic consciousness, scholastic motivation and community involvement.

2.02 TECHNOLOGY EDUCATION

TSA promotes TECHNOLOGY EDUCATION in the school, community, state and nation. Members help Technology Education become the viable, effective and integral part of the total education system it was designed to be.

2.03 KNOWLEDGE

TSA increases the KNOWLEDGE and broadens the understanding of its members. Members learn to better understand the industrial/technical society in which we live,

by being aware and informed of new developments and technology.

2.04 RESPECT

TSA inspires students to RESPECT the dignity of labor and to appreciate craftsmanship. Members learn to cooperate together to obtain quality results in the achievement of individual and chapter activities and projects.

2.05 MOTIVATION

TSA encourages scholastic MOTIVATION to its members. By providing opportunities to integrate and use the knowledge and skills of other educational disciplines, members become interested in learning.

2.06 CHOICES

TSA assists members in making informed and meaningful occupational CHOICES.

Section 3 The PA-TSA Logo



Section 4 PA-TSA Official Dress

4.01 The PA-TSA Dress Code is as follows for TSA activities at Regional and State Conferences:

(a) Category A – Official Dress

Blazer: navy blue with official TSA patch

Ties: scarlet red imprinted with official TSA logo (for males and females)

Shirt or Blouse: white, button-up with turn-down collar or official blue TSA dress shirt

Pants or Skirt: light gray

Socks: black or dark blue (males)

Shoes: black dress shoes (unacceptable: athletic shoes, army boots, combat boots or work boots)

Sandals: females only may wear black, open-toe shoes or sandals

(b) Category B – Professional TSA Attire

Shirt: button-up with turn-down collar

(unacceptable: t-shirt, polo or golf shirt)

Ties: required for males and optional for females

Pants or Skirt: dress pants (unacceptable: jeans, baggy pants, exterior pockets pants); skirts must be even with or longer than the tips of one's fingers (females only)

Socks: black or dark blue

Shoes: dress shoes or dress boots (unacceptable: athletic shoes, combat boots or work boots)

Sandals: females only may wear open-toe shoes or sandals

(c) Category C – Business Casual TSA Attire

Shirt: TSA t-shirt or collared shirt

Pants: dress slacks, skirt or dress jeans (unacceptable: shorts)

Shoes: best possible

(d) Category D – Casual Personal Time

Casual Dress Permitted

Shoes: sneakers or some type of shoe

Unacceptable: tank tops or "poor taste" t-shirts

(e) Items Never Permitted (this is an extension of the school day — school code is in effect)

Hats (any type)

Weapons of any type (utility knives and x-acto knives must be used under adult supervision)

Any tobacco products, matches, lighters

Any controlled substances (alcohol or drugs)

4.02 The Dress Code for each event will be assigned by the Conference Director for the State Conference.

4.03 Regional Conferences will follow this Dress Code when no Dress Code is established by a Regional Coordinator.

4.04 The National Conference will follow the dress code established in THE OFFICIAL TSA COMPETITIVE EVENTS GUIDE.

Section 5 The PA-TSA Structure

The Pennsylvania Technology Student Association is aligned into three primary areas: Students, Teachers and Alumni, as well as a fourth area - the State Conference Planning Team. All areas exist in order to provide for the students of Pennsylvania TSA.

5.01 State Officer Team – Pennsylvania Technology Student Association Bylaws

(a) Please see the “Pennsylvania Technology Student Association Bylaws” for the official operating procedures. – Appendix A

5.02 PA-TSA, Inc. – The Pennsylvania Technology Student Association and Foundation, Inc.

(a) Please see the “Pennsylvania Technology Student Association and Foundation, Inc.” documentation for the official operating procedures. – Appendix B

5.03 Alumni Association

(a) Please see the “Pennsylvania Technology Student Association Alumni” documentation for the official operating procedures. – Appendix C

5.04 State Conference Planning Team

(a) Appendix D

Section 6 Competitive Events

6.01 Event Listing

(a) Event information (Appendix E) is updated regularly on-line at <http://www.patsa.org/>.

6.02 Entry Explanation

(a) All properly affiliated chapters must meet all Regional and State Conference registration deadlines.

(b) Qualifying Events

(1) Qualifying events will be posted yearly on PA-TSA’s website – <http://www.patsa.org/>.

(2) Qualifying events MUST be held at the Regional conference, (see Section 6.03 for more information).

(c) State Conference Maximums

- (1) An event designated as a "Qualifying" event will have a "Q" in the "State Maximum" column for the State.
 - > Only the contestants (individual or teams) who qualify as described above may participate in the State Conference for that event.
 - > In an Individual event, the participant MUST be the Regional qualifier in order to participate at the State Conference. There are no substitutions at the State level.
 - > In a Team event, the team MUST be the Regional qualifier in order to participate at the State Conference. Members of the team may be substituted as the advisor deems necessary.
 - (2) For events that have a number in the "State Maximum" column for the State Conference, a chapter is able to take that number of individuals (teams) for that event.
 - (3) A chapter may exceed the "State Maximum" IF all participants:
 - > have competed in the Regional Conference for that event,
 - > and was a Qualifier as described in Section 6.06 (a).
 - > If the chapter exceeds the maximum number for the event at the State Conference, there will be no substitution permitted.
- (d) State Conference Registration
- (1) Each student may enter NO MORE THAN 6 COMPETITIVE EVENTS. (Students who register for more than 6 competitive events will be listed for only the first 6 events, in numerical order, on their registration form).
 - (2) No additional (add-on) registration beyond the State Conference registration deadline of 14 days prior to the first day of the State Conference will be permitted.

- (3) All registration must be completed on-line. Any registration completed by paper, and after the deadline date, will be assessed a \$50.00 fee for late registration.
 - (4) There will be no on-site registration of students. All students must be pre-registered. Students must complete the required student packet prior to attending any conference, (forms are posted on-line at the State Conference website). These forms must remain in the advisor's possession for the entire trip/conference.
- (e) Individual vs. Team Events
- (1) Individual Events are defined as events in which one (1) and only one (1) person may participate in the event for any given entry.
 - (2) Team Events are defined in the COMPETITIVE EVENTS GUIDE. For Regional and State Conferences, the entire team MUST sign in when reporting for a team event. If not enough participants are signed in, the team will be assessed a rules violation deduction.
 - (3) Individual/Group events are events in which 1 or more students may participate. These events will be grouped with team events, (for management purposes), but will be designated "I/G" in the "I/T" column of "Event Information/Event Numbers".
 - (4) The number of participants allowed per event is listed in the "#/Team" column of "Event Information/Event Numbers".

6.03 Regional Conference Guidelines and State Qualifiers

- (a) The regional events have been divided into two groups, QUALIFYING EVENTS and OPTIONAL EVENTS.
- (b) Qualifying Events must be offered at the Regional level by all regions that have existed for at least 3 years.
- (c) Qualifying Events will be posted yearly on PA-TSA's website – <http://www.patsa.org/>.
- (d) Optional Events should be offered at a Regional level

to provide additional competitive experience for all contestants; however, they will not be required for State Conference eligibility. Regional Coordinators can verify bonus-qualifying positions for Optional Events.

- (e) New Regions (3 years or less) have the option to provide as many contests as the Regional Coordinator can handle. In the event that a new Region cannot organize a complete set of Qualifying contests, each affiliated chapter within that Region shall be allowed to qualify one contestant/team for each Qualifying contest for the PA State TSA Conference.
- (f) State Qualifiers shall be identified in all events. The number of Qualifiers a Region may send in a Qualifying Event is based on the number of entries registered in the event. The number of Qualifiers for a given event will be determined for each level as follows:
 - (g)

Entries	State Conference Qualifiers
7 or less	• 1st, 2nd & 3rd places
8 to 12	• 1st, 2nd & 3rd places + One (1) Qualifier
13 to 17	• 1st, 2nd & 3rd places + Three (3) Qualifiers
18 to 23	• 1st, 2nd & 3rd places + Five (5) Qualifiers
24 to 29	• 1st, 2nd & 3rd places + Seven (7) Qualifiers
30 to 36	• 1st, 2nd & 3rd places + Eight (8) Qualifiers
37 to 42	• 1st, 2nd & 3rd places + Nine (9) Qualifiers
43 plus	• 1st, 2nd & 3rd places + Ten (10) Qualifiers

6.04 Eligibility for Entry

- (a) Affiliation - Many Regions plan for their conferences well in advance of the conference. Chapters who do not affiliate until after the January 15th deadline, can have adverse effects on the Regional Conference. In addition, chapters who affiliate late might not be prepared to attend a Regional Conference, because they lack the knowledge to understand the conference and its procedures.
 - 1) Chapters are required to affiliate with National TSA.
 - 2) Affiliation is defined as a chapter whose

affiliation has been accepted and approved by National TSA.

- 3) Chapters affiliate by student - Regional and State Conference registration shall be limited to the same number of students who affiliated with National TSA.
- 4) A New Chapter is any chapter which has not been affiliated within the last five years.
- 5) New Chapters must be affiliated by January 15th to attend a Regional Conference.
- 6) New Chapters affiliating after January 15th will only be accepted solely at the discretion of the Region in which it is located.
- 7) New Chapters affiliating after January 15th and thirty (30) days prior to the State Conference may attend the PA-TSA State Conference.
- 8) New Chapters affiliating within thirty (30) days prior to the PA-TSA State Conference shall not be permitted to register for the PA-TSA State Conference.

(b) Regional Conferences

- 1) National TSA and PA-TSA members in good standing.
- 2) Visiting members of non-affiliated chapters may compete on a "one-time" basis only at Regional Conferences. Visiting chapters will be allowed one contestant for each competitive event.
- 3) Contestants must be pre-registered to receive a Regional award. Non-affiliated contestants will be recognized on merit only.
- 4) Non-affiliated chapters will have the option to affiliate for State competition eligibility within two weeks of the conclusion of the Regional Conference.

(c) State Conferences

- 1) National and PA-TSA members in good standing.
- 2) Contestants must be pre-registered to attend.
- 3) Permission forms must be signed and dated by the appropriate individuals.

6.05 Regional Conference and Chapter Member Entry Guidelines

- (a) A Regional Conference shall consist of three or more Middle School chapters and/or three or more High School chapters competing in order for the competing chapters to satisfy the Qualifying Events requirements for the State Conference.
- (b) Regional Conferences must have the following events offered at the conference:

Middle School	High School
103 Challenging Technology Issues	202 Architectural Renovation
105 Communication Challenge	210 Desktop Publishing
108 Digital Photography	212 Dragster Design
109 Dragster	215 Extemporaneous Speech
112 Environmental Focus	217 Flight Endurance
114 Flight	219 Manufacturing Prototype
116 Go Green Manufacturing	223 Photographic Technology
121 Prepared Speech	224 Prepared Presentation
122 Problem Solving	225 Promotional Graphics
123 Promotional Design	227 Structural Engineering
125 Structural Model	231 Technology Problem Solving
141 PA - Calculator Robots	232 Transportation Modeling

All other events are to be held at the discretion of the Regional Coordinator.

6.06 State Conference and Chapter Member Entry Guidelines

- (a) In order to participate in any of the Qualifying Events at the PA-TSA State Conference, a student or team must first qualify at a Regional Conference.
- (b) If your Region does not hold a conference, the number of entries must follow the National and PA-TSA ONLY Competitive Events guidelines.
- (c) Middle School chapters are limited to the following number of entries per event at the State Conference
 - (1) Qualifying Events in which a chapter must qualify at Regionals prior to the States Conference:
 - 103 Challenging Technology Issues
 - 109 Dragster
 - 121 Prepared Speech

- 122 Problem Solving
- 125 Structural Model
- 140 PA - Biomedical Research Essay Contest
- (2) No more than five (5) entries per chapter in:
 - 143 PA - Delta Dart
- (3) No more than four (4) entries per chapter in:
 - 150 PA - Snapshot
- (4) No more than three (3) entries per chapter in:
 - 141 PA - Calculator Robots
 - 148 PA - Robotics
- (5) No more than two (2) entries per chapter in:
 - 101 Agriculture and Biotechnology Design
 - 102 Career Prep
 - 105 Communication Challenge
 - 107 Construction Challenge
 - 110 Electrical Applications
 - 112 Environmental Focus
 - 114 Flight
 - 115 Geospatial Technology
 - 117 Inventions and Innovations
 - 118 Junior Solar Sprint
 - 119 Leadership Strategies
 - 120 Medical Technology Issues
 - 124 STEM Animation
 - 127 Tech Bowl
 - 128 Technical Design
 - 129 Video Game Design
 - 130 Water Infrastructure
 - 142 PA - Computer-Aided Drafting/Design
 - 145 PA - Logo Design
 - 146 PA - Materials Processes
- (6) No more than one (1) entry per chapter in:
 - 104 Chapter Team
 - 106 Community Service Video
 - 108 Digital Photography
 - 111 Energy Sources
 - 113 Essays on Technology

- 116 Go Green Manufacturing
- 123 Promotional Design
- 126 System Control Technology
- 131 Website Design
- 144 PA - Digital Video Challenge
- 147 PA - R/C Drag Racing
- 149 PA - Safety Illustration, Computer Generated

- (d) High School chapters are limited to the following number of entries per event at the State Conference
- (1) Qualifying Events in which a chapter must qualify at Regionals prior to the States Conference:
 - 202 Architectural Renovation
 - 210 Desktop Publishing
 - 212 Dragster Design
 - 215 Extemporaneous Speech
 - 223 Photographic Technology
 - 224 Prepared Presentation
 - 227 Structural Engineering
 - 231 Technology Problem Solving
 - 240 PA - Biomedical Research Essay Contest
 - (2) No more than three (3) entries per chapter in:
 - 206 CAD, 2D Architecture
 - 207 CAD, 3D Engineering
 - 246 PA - Robotics
 - (3) No more than two (2) entries per chapter in:
 - 201 Animatronics
 - 217 Flight Endurance
 - 218 Future Technology Teacher
 - 219 Manufacturing Prototype
 - 220 Music Production
 - 226 Scientific and Technical Visualization (SciVis)
 - 229 Technical Sketching and Application
 - 230 Technology Bowl
 - 232 Transportation Modeling
 - 233 Video Game Design
 - 241 PA - Computer Systems Troubleshooting
 - 242 PA - Electronic Research and Experimentation

243 PA - Logo Design

244 PA - Materials Processes

(4) No more than one (1) entry per chapter in:

203 Biotechnology Design

204 Career Preparation

205 Chapter Team

208 CNC Production

209 Debating Technological Issues

211 Digital Video Production

213 Engineering Design

214 Essays on Technology

216 Fashion Design

221 On Demand Video

222 Open Source Software Development

225 Promotional Graphics

228 System Control Technology

234 Webmaster

245 PA - R/C Drag Racing

247 PA - Safety Illustration, Computer Generated

6.07 Rules Interpretations and Violations

(a) Each Regional Conference should have a team of at least three Advisors who would see to the interpretations of the contest rules.

(b) One member of this team MUST sign off on any rules violation which may be levied as a points deduction.

(c) The team should be the Conference Coordinator, a Middle School Advisor and a High School Advisor.

6.08 State Conference Event Conflicts

(a) The affected student(s) or the advisor of the affected student(s) must meet with the Event Coordinator of the contest at least one-half hour prior to the event.

(b) The Event Coordinator has the right to deny any change.

(c) Students arriving late for event without prior permission will not be allowed to compete.

6.09 Event Matrix

(a) See Appendix E

2013-2014 PA-TSA Regional and State Conference Event Numbers

Middle School

	Minimum Dress Code	Individual or Team	Number per Team	Regionally Required	State Maximum	National Maximum	
101	Agriculture and Biotechnology Design	B	T	2-6		2	3/s
102	Career Prep	B	I	1		2	1
103	Challenging Technology Issues	B	T	2	R	Q	3/s
104	Chapter Team	A	T	6		1	1
105	Communication Challenge	C	I	1	R	2	1
106	Community Service Video	C	T	1-6		1	1
107	Construction Challenge	B	T	2-6		2	1
108	Digital Photography	C	I	1	R	1	3/s
109	Dragster	D	I	1	R	Q	2
110	Electrical Applications	D	I	1		2	2
111	Energy Sources	B	T	2-6		1	1
112	Environmental Focus	B	T	2-6	R	2	1
113	Essays on Technology	B	I	1		1	3/s
114	Flight	C	I	1	R	2	2
115	Geospatial Technology	B	T	2-5		2	2
116	Go Green Manufacturing	B	T	3-6	R	1	1
117	Inventions and Innovations	B	T	3-6		2	1
118	Junior Solar Sprint	C	T	2-6		2	1
119	Leadership Strategies	B	T	3		2	1
120	Medical Technology Issues	B	T	2-6		2	3/s
121	Prepared Speech	B	I	1	R	Q	1
122	Problem Solving	C	T	2	R	Q	1
123	Promotional Design	C	I	1	R	1	2
124	STEM Animation	B	T	2-6		2	3/s
125	Structural Model	D	T	2	R	Q	1
126	System Control Technology	C	T	3		1	1/s
127	Tech Bowl	B	T	3		2	1
128	Technical Design	C	T	2		2	2
129	Video Game Design	B	T	2-6		2	1
130	Water Infrastructure	B	T	2-6		2	1
131	Website Design	B	T	3-5		1	1
140	PA - Biomedical Research Essay Contest	N/A	I	1		Q	0
141	PA - Calculator Robots	C	I	1	R	3	0
142	PA - Computer-Aided Drafting/Design	C	I	1		2	0
143	PA - Delta Dart Glider	C	I	1		5	0
144	PA - Digital Video Challenge	C	T	2		1	0
145	PA - Logo Design	D	I	1		2	0
146	PA - Materials Processes	B	I	1		2	0
147	PA - R/C Drag Racing	C	T	3		1	0
148	PA - Robotics	C	T	2-4		3	0
149	PA - Safety Illustration, Computer Generated	D	I	1		1	0
150	PA - Snapshot	D	I	1		4	0
151	PA - TSA VEX IQ	?	T	?		?	1/s
152	PA - TSA VEX Robotics	?	T	?		?	3/s

Appendix E (with Dress Codes)

2012-2013 PA-TSA Regional and State Conference Event Numbers

High School

		Minimum Dress Code	Individual or Team	Number per Team	Regionally Required	State Maximum	National Maximum
201	Animatronics	B	T	2-6		2	1
202	Architectural Renovation	B	I / G	1-6	R	Q	1
203	Biotechnology Design	B	T	2-6		1	3/s
204	Career Preparation	B	I	1		1	1
205	Chapter Team	A	T	6		1	1
206	Computer-Aided Design (CAD) 2D, Architecture	C	I	1		3	2/s
207	Computer-Aided Design (CAD) 3D, Engineering	C	I	1		3	2/s
208	CNC Production	C	T	2		1	1
209	Debating Technological Issues	B	T	2		1	3/s
210	Desktop Publishing	C	I	1	R	Q	1/s
211	Digital Video Production	D	T	2-6		1	3/s
212	Dragster Design	D	I	1	R	Q	2
213	Engineering Design	B	T	3-5		1	1
214	Essays on Technology	B	I	1		1	3/s
215	Extemporaneous Speech	B	I	1	R	Q	3/s
216	Fashion Design	B	T	2-4		1	1
217	Flight Endurance	C	I	1	R	2	2
218	Future Technology Teacher	B	I	1		2	3
219	Manufacturing Prototype	D	T	2-6	R	2	1
220	Music Production	B	I / G	1-6		2	3/s
221	On Demand Video	C	T	2-6		1	1
222	Open Source Software Development	B	T	2-6		1	1
223	Photographic Technology	C	I	1	R	Q	1
224	Prepared Presentation	B	I	1	R	Q	3/s
225	Promotional Graphics	D	I	1	R	1	2
226	Scientific and Technical Visualization (SciVis)	B	I / G	1-6		2	3/s
227	Structural Engineering	C	T	2	R	Q	1
228	System Control Technology	C	T	3		1	1/s
229	Technical Sketching and Application	C	I	1		2	2
230	Technology Bowl	B	T	3		2	1
231	Technology Problem Solving	C	T	2	R	Q	1
232	Transportation Modeling	D	I	1	R	2	1
233	Video Game Design	B	T	2-6		2	3/s
234	Webmaster	B	T	3-5		1	1
240	PA - Biomedical Research Essay Contest	N/A	I	1		Q	0
241	PA - Computer Systems Troubleshooting	C	T	2		2	0
242	PA - Electronic Research and Experimentation	B	T	2-6		2	0
243	PA - Logo Design	D	I	1		2	0
244	PA - Materials Processes	B	I	1		2	0
245	PA - R/C Drag Racing	C	T	3		1	0
246	PA - Robotics	C	T	2-4		3	0
247	PA - Safety Illustration, Computer Generated	D	I	1		1	0
248	PA - TSA VEX Robotics	?	T	?		?	3/s

Appendix E (with Dress Codes)