TEXAS ▶ TSA

**TUNE IN TO TECHNOLOGY**
TEXAS TSA · 2025

**APRIL 3-5, 2025**

**MIDDLE SCHOOL**

# COMPETITION GUIDELINES

# On-line Submission Guidelines

**PDF documents:** All documents must be in Portable Document Format (PDF). The competition component upload platform accepts only PDF files. The file size limit is 30 MB.

**URL link:** A web-based platform that judges will use to access and view competition components. Competitors must ensure that access to the URLs is not password-protected. Any links or documents that cannot be accessed will not be judged (including those stored in Google Drive).

**Submission Confirmation:** When uploading the pre-conference submission competition components, advisors can select "Print Confirmation" (produces a PDF to save or print) and/or "Email Confirmation" (sends an email to the address entered in the student member account) to confirm the submission upload.

**Video URL**

1. Participants may choose any video hosting site (such as an UNLISTED YouTube URL), or a shareable link in cloud storage, as long as the video is located online and accessible for evaluation. If a URL is provided, the URL must point directly to the participant's entry.
2. Entries that require a software download or a request that access be granted will not be judged.
3. The video entry must be submitted in a common video format suitable for viewing with VLC Player, utilizing a Microsoft Windows operating system.
4. Entries received, or changes made to submitted entries after the deadline will not be judged.

**Programming URLs (Video Games and Computer Programs)**

1. All online game submissions must be a hyperlink to the online game and be accessible for evaluation by the deadline posted. Participants may choose the hosting site, but the hyperlink must point directly to the entry. Entries that request access be granted will not be judged.
2. Entries received, or changes made to submitted entries after this deadline will not be judged.
3. The URL must point to the team's entry. Entries or demonstration videos that require a software download, running an executable file (.exe), or a request that access be granted will not be judged.

**Audio Files**

1. Participants may choose any video hosting site (such as an UNLISTED YouTube URL), or a shareable link in cloud storage, as long as the video is located online and accessible for evaluation. If a URL is provided, the URL must point directly to the participant's entry.
2. Entries that require a software download or a request that access be granted will not be judged.
3. The video entry must be submitted in a common video format suitable for viewing with VLC Player, utilizing a Microsoft Windows operating system.
4. Entries received, or changes made to submitted entries after the deadline will not be judged.

Texas TSA Competition Guidelines

| | | Texas TSA Middle School NQE Modifications Chart | | | |
|---|---|---|---|---|---|
| Event | Pre Submits - March 20th, 6 pm CST | Onsite Prelim Round *Due to the number of entries, some events may utilize tiered judging. Please refer to the National Competitive Events Guide for more information on Tiered Judging | Onsite Semi Final Round | Texas TSA Modifications | State Advancement Limits |
| Biotechnology | | Display and Portfolio | Interview | None - Will run as written | 3 per region, no per chapter limitation |
| Career Prep | Portfolio (PDF) | - | Interview | None - Will run as written | 3 per region, but only one per chapter |
| Challenging Tech Issues | | Practical | None. One Round Only. | Prelim Round Only Times will be pre-assigned by contest team | 3 per region, no per chapter limitation |
| Chapter Team | | Written Test | Practical | None - Will run as written | 3 per region, but only one per chapter |
| Coding | | Written Test Top 20 teams advance to semi-finals | Practical | Will run as written No power or wifi provided and neither can be used during semi finals. See page 110 | 3 per region, but only one per chapter |
| Community Service Video | Portfolio (PDF) & URL of Video | - | Interview | None - Will run as written | 3 per region, but only one per chapter |
| CAD Foundations | | Practical Per National Rules: No Wifi will be provided. Students MAY use hot spots, but no guarantees that they will work. See Comp Events Guide page 103. Ensure your students know how to export to PDF! | N/A | None - Will run as written | 3 per region, but only two per chapter |
| Construction Challenge | | Display & Scale Model/Prototype and Portfolio | Interview | None - Will run as written | 3 per region, but only one per chapter |
| Cybersecurity | | Test | Presentation | None - Will run as written | 3 per region, but only one per chapter |
| Data Science and Analytics | | Display and Portfolio | Onsite challenge | None - Will run as written | 3 per region, no per chapter limitation |
| Digital Photography | Portfolio (PDF) | - | Practical | None - Will run as written | 3 per region, no per chapter limitation |
| Dragster | | Drawing, Car, Materials List, and Race | Race | Time trials only. No double elimination No interview. | 3 per region, but only 2 per chapter |
| Electrical Applications | | Test | Practical | None - Will run as written | 3 per region, but only one per chapter |
| Essays on Technology | | - | Outline will not be submitted. Essay will be shortened to two pages, plus references. Wifi and power not provided per National Rules. See Comp Events Guide pg 187. Be sure to bring a USB for submission. USBs will not be returned. | Length of essay shorted & Outline not required nor scored | 2 per region, no per chapter limitation |

3/5/2025

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| Flight | | Pre-Built Glider and Portfolio | Will run as written. Be sure to bring required tools and materials. | Pre-Built and On-site built planes may fly together; depends on entry numbers and space available. | 3 per region, but only 2 per chapter |
| Forensic Technology | | Test | Onsite demonstration of forensic skills | None - Will run as written | 3 per region, but only one per chapter |
| Inventions & Innovations | | Display, Prototype & Portfolio | Interview | None - Will run as written | 3 per region, but only one per chapter |
| Junior Solar Sprint | | Portfolio, Car, & Shoebox Display Bring **Hard Copy** of Portfolio Do NOT bring Portfolio on USB **Due to construction at FWCC, will run indoors** TXTSA will provide AA batteries. | Race | Only one time trial. No interview | 3 per region, but only one per chapter |
| Leadership Strategies | | Practical | Prelim Round Only | Prelim Round Only Times will be pre-assigned by contest team | 3 per region, no per chapter limitation |
| Mass Production | | Prototype and Portfolio | Interview | None - Will run as written | 3 per region, but only one per chapter |
| Mechanical Engineering | | Mousetrap Car & Race | Will run as written | None - Will run as written | 3 per region, but only one per chapter |
| Medical Technology | | Display & Prototype | Interview | None - Will run as written | 3 per region, no per chapter limitation |
| Microcontroller Design | | Portfolio & Device Presentation | N/A | None - Will run as written Times will be pre-assigned by contest team | 3 per region, but only one per chapter |
| Off the Grid | | Model, Portfolio, & Display | Interview | None - Will run as written | 3 per region, no per chapter limitation |
| Prepared Speech | | Practical We do not guarantee a podium will be available. | Prelim Round Only | Prelim Round Only Times will be pre-assigned by contest team | 3 per region, no per chapter limitation |
| Problem Solving | | Practical | N/A | None - Will run as written | 3 per region, but only one per chapter |
| Promotional Marketing | Portfolio (PDF) & URL of Digital Signage | - | Onsite Challenge | None - Will run as written | 3 per region, but only one per chapter |
| STEM Animation | Portfolio (PDF) & URL of Video | - | Interview | None - Will run as written | 3 per region, no per chapter limitation |
| Structural Engineering | | Pre-Built Structure, Documentation, and Plastic Storage Box | Top 12 teams will do onsite build and test | Number of semi-finalists is smaller, but otherwise this event will run as written | 3 per region, but only one per chapter |
| System Control Technology | | - | Will run as written | None - Will run as written | 3 per region, no per chapter limitation |
| Tech Bowl | | Written Test | Oral Rounds | None - Will run as written | 3 per region, but only one per chapter |

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| Technical Design | | - | Will run as written | None - Will run as written | 3 per region, but only one per chapter |
| Video Game Design | Portfolio (PDF) & URL of Video Game | - | Interview | None - Will run as written | 3 per region, but only one per chapter |
| Vlogging | Portfolio (PDF) & URL of Vlog Series Playlist | - | Onsite Challenge Bring a USB drive for submission. USBs will not be returned. | Only change is submission on USB rather than JudgePro upload | 3 per region, but only two per chapter |
| Website Design | URL of Website | - | Interview | None - Will run as written | 3 per region, but only one per chapter |

| Texas TSA Middle School UTE On-Site Modifications Chart | | |
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| **Event Name** | **Onsite** | **State Advancement Limits** |
| MS UTE Hot Rod CO2 Car Competition - Wood | Car and Portfolio, and Race | 5 Per Region, No Per Chapter Restriction |
| MS UTE Hot Rod CO2 Car Competition - ABS Plastic | Car and Portfolio, and Race | 5 Per Region, No Per Chapter Restriction |
| MS UTE CO2 Research Racer - Wood | Car and Portfolio, and Race | 5 Per Region, No Per Chapter Restriction |
| MS UTE CO2 Research Racer - ABS Plastic | Car and Portfolio, and Race | 5 Per Region, No Per Chapter Restriction |
| MS UTE RC Vehicle | Car and Portfolio, and Race Texas TSA Liability Release | 5 Per Region, No Per Chapter Restriction |
| MS UTE Drone Competition | Drone and Portfolio<br>Safety Glasses and Hard Hats Required<br>Texas TSA Liability Release | 5 Per Region, No Per Chapter Restriction |
| MS UTE Catapult/Trebuchet | Catapult/Trebuchet and Portfolio<br>Safety Glasses are Required<br>Texas TSA Liability Release | 5 Per Region, No Per Chapter Restriction |
| MS UTE Animation | Participating schools must supply all necessary software, hardware, paper, etc.<br>Internet will not be provided | 5 Per Region, No Per Chapter Restriction |
| MS UTE Graphic Design, Artistic | Participating schools must supply all necessary software, hardware, paper, etc.<br>Internet will not be provided | 5 Per Region, No Per Chapter Restriction |
| MS UTE Multimedia Presentation | Participating schools must supply all necessary software, hardware, paper, etc.<br>Internet will not be provided | 5 Per Region, No Per Chapter Restriction |
| MS UTE Technology Problem Solving | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Communication Technology | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Computer Applications | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Construction Technology | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Energy, Power & Transportation Technology | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Manufacturing Technology | The only items that may be taken into the contest area are: flat drawing surface, such as a clipboard, (maximum size of 12 x 16 inches), pencils and eraser. | 5 Per Region, No Per Chapter Restriction |
| MS UTE Promotional Video | Submit a hyperlink of video solution and the student copyright checklist | 5 Per Region, No Per Chapter Restriction |
| MS UTE Social Media Marketing | Submit a single PDF file of social media content and a documentation portfolio. | 5 Per Region, No Per Chapter Restriction |

| Texas TSA Middle School UTE Project Modifications Chart | | | | |
|---|---|---|---|---|
| **SubSection** | **Classification Numbers** | **Pre Submits - March 20th, 6 pm CST** | **Onsite** | **State Advancement Limit** |
| CNC/CAM & 3D Printing | MP10000-MP10403 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Wood | MP11000-MP11204 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Metal | MP1200-MP12106 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Other Materials | MP13000-MP13504 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Graphic Design | MP20000-MP20001 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| | MP20002-MP20003 | URL to Video of student demonstrating - 5 min max<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP20004-MP20005 | PDF of Project<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP20006 | URL to Video of student demonstrating - 5 min max<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP20007-MP20008 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| | MP20100-MP20216 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Multimedia | MP21000-MP21002 | PDF of Project<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP21200-MP21201 | URL of Video - See Online Submission Guidelines<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP21202 | PDF of Project<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP21300-MP21303 | PDF of Project<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP21400-MP21401 | URL of Animation<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| Computer Science | MP22000-MP22002 | URL of Website<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| | MP22100-22202 | URL to Video of Video Game/Program working - 2 minutes max<br>PDF of Code<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| Photography | MP23000-MP23903 | PDF of Photo<br>PDF of Documentation | | 7 Per Region, No Per Chapter Restriction |
| Engineering | MP30000-MP30301 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |

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|---|---|---|---|---|
| **SubSection** | **Classification Numbers** | **Pre Submits - March 20th, 6 pm CST** | **Onsite** | **State Advancement Limit** |
| Architecture | MP31000-MP31200 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Models | MP32000-MP32303 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |
| Displays & Portfolios | MP40000-MP40503 | | Project & Project Documentation | 7 Per Region, No Per Chapter Restriction |