



Texas Technology Student Association - Work-Based Learning and Expanded Learning Opportunities

<b>Program of Study:</b>	<b>Architectural Design</b>		
<b>Career Cluster:</b>	<b>Architecture and Construction</b>		
<b>Classification of Competitive Event</b>	<b>Name of Event</b>	<b>Classification #</b>	<b>Link</b>
<b>National Qualifying Events</b>	Architectural Design		<a href="https://tsaweb.org/competitions-programs/tsa/high-school-competitions/-in-category/categories/architecture-and-construction-technology">https://tsaweb.org/competitions-programs/tsa/high-school-competitions/-in-category/categories/architecture-and-construction-technology</a>
	Computer-Aided Design (CAD), Architecture		<a href="https://tsaweb.org/competitions-programs/tsa/high-school-competitions/-in-category/categories/architecture-and-construction-technology">https://tsaweb.org/competitions-programs/tsa/high-school-competitions/-in-category/categories/architecture-and-construction-technology</a>
<b>Unique to Texas On-Site Events</b>	Architecture & Construction Graphic Solution	HU311	<a href="https://texastsarulebook.org/category/unique-to-texas-events">https://texastsarulebook.org/category/unique-to-texas-events</a>
<b>Unique to Texas Projects</b>			
<i>Architectural Photography</i>	Architectural Photography B/W	HP6208	<a href="https://texastsarulebook.org/high-school-category-projects/photography">https://texastsarulebook.org/high-school-category-projects/photography</a>
	Architectural Photography Color	HP6209	<a href="https://texastsarulebook.org/high-school-category-projects/photography">https://texastsarulebook.org/high-school-category-projects/photography</a>
<i>Architectural Design</i>	Sketch drawing - Any Architectural subject - Shading Allowed - pencil (black & white)	HP7100	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	Presentation Sketch drawing - Any Architectural subject - Floor plan and Front Elevation required - Shading Allowed - (color)	HP7101	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	Mechanical Drafting: Tiny House: A tiny house is defined as a structure on a trailer that includes living area, kitchen, sleeping area and a full bath. Max trailer size is 8' x 24' - bumper pull or goose neck. Max overall height 13' 6". Must draw both structure and trailer.	HP7102	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>

Tiny House: A tiny house is defined as a structure on a trailer that includes living area, kitchen, sleeping area and a full bath. Max trailer size is 8' x 24' - bumper pull or goose neck. Max overall height 13' 6". Must draw both structure and trailer.[CADD]	HP7104	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Mechanical drafting - Residential Structure: Working Drawing of any residential structure - pencil and/or ink allowed.	HP7106	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Mechanical drafting - commercial structure: Working Drawing of any commercial structure - pencil and/or ink allowed.	HP7108	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential home under 2000 sq. ft HVAC [2D CADD]	HP7110	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential home under 2000 sq. ft HVAC [3D CADD]	HP7112	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential home over 2000 sq. ft HVAC [2D CADD]	HP7114	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential home over 2000 sq. ft HVAC [3D CADD]	HP7116	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential multistory single family home under 2000 sq. ft [2D CADD]	HP7118	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential multistory single family home under 2000 sq. ft [3D CADD]	HP7120	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential multistory single family home over 2000 sq. ft [2D CADD]	HP7122	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of residential multistory single family home over 2000 sq. ft [3D CADD]	HP7124	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>

Working drawings of apartment, condo, townhouse, duplex [2D CADD]	HP7126	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Working drawings of apartment, condo, townhouse, duplex [3D CADD]	HP7128	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Retail 2D	HP7129	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Recreational Facility/Public Structure 2D	HP7130	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Retail 3D	HP7131	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Recreational Facility/Public Structure 3D	HP7132	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Restaurant 2D	HP7133	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Other 2D	HP7134	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Restaurant 3D	HP7135	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Commercial - Other 3D	HP7136	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Mixed Use (2 or more zoning uses) 2D	HP7137	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Mixed Use (2 or more zoning uses) 3D	HP7138	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Remodeling drawings (number of sheets as needed)	HP7140	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Remodeling drawings (number of sheets as needed) [CADD]	HP7142	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Construction detailing (All types of typical details that are used in the construction of a building - 1 sheet)	HP7144	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Construction detailing (All types of typical details that are used in the construction of a building - 1 sheet) [CADD]	HP7146	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Civil Construction (Example: Tunnel, dam, bridge, or transportation systems, etc. number sheets as needed)	HP7148	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>

Civil Construction (Example: Tunnel, dam, bridge, or transportation systems, etc. number sheets as needed) [CADD]	HP7150	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Topographic/Surveying drawings (number of sheets as required)	HP7152	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Topographic/Surveying drawings (number of sheets as required) [CADD]	HP7154	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Architectural Landscape Plan (Number of sheets as needed) Should include underground sprinkler plan.	HP7156	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Architectural Landscape Plan (Number of sheets as needed) Should include underground sprinkler plan. [CADD]	HP7158	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing - Residential - Exterior View & Floor Plan only (rendered in any way except airbrush or computer)	HP7160	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing - Residential - Exterior View & Floor Plan only (rendering method computer only)	HP7162	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing - Commercial/Public - Exterior View & Floor Plan only (rendered in any way except airbrush or computer)	HP7164	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing - Commercial/Public - Exterior View & Floor Plan only (rendering method computer only)	HP7166	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing - Architectural - Exterior View & Floor Plan only (airbrush)	HP7168	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>

Presentation drawing of master plan development showing streets, property subdivisions, public use areas, utility locations, easements, contours and development themes.	HP7170	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Presentation drawing of master plan development showing streets, property subdivisions, public use areas, utility locations, easements, contours and development themes. [CADD]	HP7172	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Energy Conservation Design: Must include one or more applications of active, passive earth sheltered, hybrid, envelope, or other energy saving designs elements. (Number of sheets as needed)	HP7174	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Energy Conservation Design: Must include one or more applications of active, passive earth sheltered, hybrid, envelope, or other energy saving designs elements. (Number of sheets as needed) [CADD]	HP7176	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Computer generated original 3D landscape - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7178	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
Computer generated original 3D architecture - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7179	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>

	Walkthrough Architecture - between 60 sec & 90 sec - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7180	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	Flythrough Architecture - between 60 sec & 90 sec - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7181	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	Walthrough Landscape - 60 sec max - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7182	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	Flythrough Landscape - 60 sec max - This project is submitted digitally ahead of State Contest. See the Front of the Rulebook for submission dates and requirements.	HP7183	<a href="https://texastsarulebook.org/high-school-category-projects/drafting-cad">https://texastsarulebook.org/high-school-category-projects/drafting-cad</a>
	<b>Models - Architectural</b>		
	Models - residential single or multifamily unit	HP7200	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - apartment, condo, townhouse, duplex	HP7201	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - scale model of residential structure not listed	HP7202	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - model of a master plan development	HP7203	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - scale model of a commercial structure	HP7204	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - civil structure	HP7205	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - automated security or environmental control system	HP7206	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - working model of a subsystem	HP7207	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>
	Models - space structure	HP7208	<a href="https://texastsarulebook.org/high-school-category-projects/construction-modeling-design">https://texastsarulebook.org/high-school-category-projects/construction-modeling-design</a>

	<b>Models - space based production system</b>	HP7209	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	<b>Models - automated facility for manufacturing a product</b>	HP7210	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	<b>Models - recreational facility</b>	HP7211	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	<b>Models - structural model residential home (using appropriate scale, material and keeping with current framing standards))</b>	HP7212	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	<b>Models - mechanical device/system</b>	HP7213	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
<b>Study Model</b>	Study Model Residential	HP7214	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	Study Model Commercial (No removable roof required)	HP7215	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
<b>Kits</b>	Kits - Woods	HP7216	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	Kits - Metals	HP7217	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	Kits - Electrical/Electronics	HP7218	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	Kits - Other	HP7219	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
<b>Interior Design</b>	Interior Design: Residential	HP7220	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>
	Interior Design: Commercial	HP7222	<a href="https://texastсарulebook.org/high-school-category-projects/construction-modeling-design">https://texastсарulebook.org/high-school-category-projects/construction-modeling-design</a>