



## Regional 2020-2021 Contest Catalog

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### **TECHNICAL DRAFTING (Virtual)**

#### **Contest Description**

This is a National contest. Competitors that medal at the State level will be eligible to compete at Nationals.

The contest will focus on the solution of industry-developed problems by applying appropriate technical drafting skills and tools including computer-aided drafting (CAD).

#### **Live Virtual Contest Schedule**

Contestants will participate in an online competition on **Saturday, February 20th, 2021 over Zoom at 10 AM**. Resumes must be submitted to SkillsUSA California by **February 13, 2021** (details to follow).

#### **Regional Competition Duration**

Virtual Competition: 3 hours

The contest will focus on the application of appropriate advanced-level technical drafting skills to solve visualization and presentation problems of a mechanical nature as designed by the SkillsUSA CA Drafting Technical Committee. Contestants are expected to be familiar with Geometric Dimensioning and Tolerancing (GD&T).

#### **Contest Guidelines**

1. Competitors will be required to establish a Gmail account for ease of access to Google Docs.
2. Drafting competitors must be familiar with exporting/printing their work in a portable document format (PDF). Most software programs have an integral "Print to PDF" option or Adobe PDF driver loaded into their printer options. If not, there are several open-source PDF writer programs available for free online. We recommend the

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following: Foxit Reader: [https:// www.foxitsoftware.com/products/pdf-reader/CutePDF](https://www.foxitsoftware.com/products/pdf-reader/CutePDF)

Writer: <http://www.cutepdf.com/products/cutepdf/writer.asp>

3. Competitors may use standard or customized titleblock for their drawings (all drawings will be printed on 11 x 17 paper).
4. All drawings must have their contestant number ONLY when submitted. Any references to school name, location, or competitor's names must be deleted or their drawings will be disqualified. Drawings must be anonymous for Judging.

### Materials Supplied by SkillsUSA CA

Links to location of the contest problems and Zoom Meeting information. A secured location for accessing, uploading, and saving submitted PDF files.

### Student Materials List

1. Computer with high-speed internet capability and camera to use applications such as Zoom. The minimum recommended internet bandwidth speeds for joining Zoom meetings, accessing on-demand curriculum and other online operations is 2.0 Mbps up and down. You can test your current internet speeds by following this link: <https://www.speedtest.net/>. Allow the page to load and click on GO
2. Computer-aided drafting software that is able to create 2D or 3D design and technical documentation. Software capable of producing renderings or digital models is recommended but not required.
3. *Machinery's Handbook* or and three additional published reference books.

### Clothing Requirements

Official Dress is NOT required for Regionals. Clothing must be unbranded with no words, images, or logos. SkillsUSA or SkillsUSA California attire is recommended.

*Note: Check the Contest Guidelines and/or the updates page on the SkillsUSA website:*

[www.skillsusa.org/compete/updates.shtml](http://www.skillsusa.org/compete/updates.shtml)

<https://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/>

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