INTRODUCTION TO DRAFTING A and B
(Virtual)

Contest Description

This is a California only contest. Competitors that medal at the State level will not compete at Nationals.

Students in Grades 9 and 10 with less than 180 hours of Technical or Mechanical Drafting instruction are eligible to enroll in the Introductory **Drafting A** contest.

Students in Grades 11 and 12 with less than 180 hours of Technical or Mechanical Drafting instruction are eligible to enroll in the Introductory **Drafting B** contest.

The contest problem includes creating computer-generated or board-drafted drawings. The contest challenges the contestants' problem-solving abilities, not simply their drafting skills.

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

Virtual Competition: 2 hours

The contest will focus on the application of appropriate basic technical drafting skills using manual drafting or computer-aided drafting software to provide visualization studies of a mechanical nature as designed by the SkillsUSA CA Drafting Technical Committee.

Contest Guidelines

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.

Regional 2020-2021 Contest Catalog

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 following: Foxit Reader: https:// www.foxitsoftware.com/products/pdf-reader/CutePDF Writer: http://www.cutepdf.com/products/cutepdf/writer.asp

Manually drafted drawings must be scanned and uploaded as a scalable PDF for judging.

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. Students who choose to complete their contest using manual drafting tools are required to provide all their drafting equipment and vellum/drawing paper for the competition (3 sheets of 11 x 17). Paper may have pre-printed title blocks on them

but all references to school name, location, or student names must be deleted. Drawings must be scanned and uploaded as a scalable PDF for judging.

3. 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.

4. Machinery's H*andbook or* and three additional published reference books.

Clothing Requirements

Official Dress is NOT required for the Regional events. 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 CA website: **www.skillsusa.org/compete/updates.shtml**