



Regional 2020-2021 Contest Catalog

3-D VISUALIZATION & ANIMATION (Virtual)

Contest Description

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

The world of 3-D is rapidly expanding, and career opportunities exist in a wide range of fields, including architecture, games, product and industrial design, civil engineering, and film and television animation. This contest allows students to step into a real-world 3-D production environment where creative output must be accomplished within specific timeframes, resources and design constraints. This is a two-person team event.

Contestants must produce high quality images and an animated short subject using 3-D computerized images. Students are evaluated on their technical knowledge, production skills and creative abilities – including visual development and storyboarding.

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

Non-virtual competition: 4 Hours (to be done offline)

Virtual competition: 3 Hours (to be done live online)

Both portions of the contest will evaluate contestants on their technical knowledge, production skills and creative abilities. The offline portion will challenge contestants abilities to perform conceptual visual development and a storyboard. Contestants must be prepared to demonstrate their teamwork, ability to creatively reach consensus on a design solution and organize their efforts. The virtual competition will require rendering and creating the complementary props and submitting high quality still renderings at a

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resolution of 1920 x 1080 pixels in true color (24 or 32-bit color depth) to show the quality of textures and lighting.

Knowledge Performance

A knowledge exam will not be included in the regional contest.

Contest Guidelines

Contestants will be modeling and displaying three related objects. These objects will be created using modifiers, extruding, lathing, and compound objects through Boolean and lofting techniques. Contestants must show their planning through sketches of orthographic views in Story-Boards. The models do not need to be textured with bump maps, but should demonstrate accurate scaling and color. The three models will be rendered in an appropriate viewport with a $\frac{3}{4}$ view of the produced scene.

Complimentary props may be needed to complete your scene. You will be using a three-point and target lighting setup to illuminate your scene and environment. There is a limited amount of time so be careful to leave time for rendering and creating your complimentary props.

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. Competitors will be required to establish a Gmail account for ease of access to Google Docs.
2. 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.
3. Printer or scanner
4. Contestants will use the software of their choice. The software must be capable of producing both 2-D and 3-D renderings and animation.
5. Paper and art supplies for storyboard development to include colored pencils, two 11" x 17" tablets, chalk, glue stick, charcoal, and regular pencils.
6. Contestants may use published reference books and software manuals.
7. All competitors must create and submit a one-page resume.

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Clothing Requirement

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 National Contest Guidelines and/or the updates page on the SkillsUSA website:

www.skillsusa.org/compete/updates.shtml

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

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