SkillsUSA Events for

Programming and Web Design

- 3D Visualization and Animation
- Computer Programming
- Information Technology Service
- Internetworking
- Technical Computer Applications
- Web Design

*FOR FULL CONTEST OUTLINES, PLEASE REFER TO THE STATE OR NATIONAL STANDARDS.

*NATIONAL STANDARDS CAN ONLY BE ACCESSED BY INSTRUCTORS WHO HAVE A CURRENT PROFESSIONAL MEMBERSHIP.

Contest Name: **3D Visualization and Animation**

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Team (2 students)

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"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 and includes a preliminary written exam. 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. Competitors can also interface with and get feedback from high-profile judges with successful careers in 3-D visualization and animation." (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name: **Computer Programming**

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Individual

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"Competition consists of project coding and output, a skill-related written test and an interview. The contestants will receive a packet that includes instructions to the written test and each of the two projects. Each project's specifications are written for Visual Basic, Java, C#, C++ and RPG. The projects will be saved on the Desktop in a folder called "SkillsUSA Contestant#_." All projects will be downloaded to a jump drive or diskette (whichever the student prefers) and transferred to a main station to be printed, both code and screen shots" (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name: **Information Technology Services**

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Individual

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"Students identify and correct end-user computing issues and must demonstrate ability to: configure and secure SOHO networks, configure network interfaces, manage client side virtual machines, navigate and modify Windows registry, deploy an operating system to a workstation, use remote assistance software and troubleshooting tools, identify virus and malware origins, understanding of basic security concepts, work with mobile devices, proficiently use commands in Windows, PowerShell, and Linux. Interpersonal skills include interaction with corporate co-workers, IT Consultants and, Consumers.

"In addition, the contestants are proctored a Comp TIA Certification exam. Their score on this exam is used as the basis for the written portion of the contest" (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name: Internetworking

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Individual

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"The contest focuses on testing the networking knowledge and hands-on ability of the competitors. The online written portion tests the student's complete knowledge of internetworking concepts. The hands-on component demonstrates the abilities of the contestant to make cables, trouble shoot network systems, configure routers, switches and servers, and to deliver customer service in a technical assistant center environment. The contestants will find errors in WAN and LAN networks; do a full network configuration using routers, switches, and servers; talk a technician through an error they are having on their network; and take an online, certification type test. The national contest is based on the most current CCNA certification. In today's job market system administration skills are needed, therefore server skills that will be scored include, but are not limited to: DNS, Active Directory, and DHCP. For more information including last-minute updates on the national competition, be sure to follow our Facebook page at: https://www.facebook.com/SkillsUSA.Internetworking" (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name: **Technical Computer Applications**

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Individual

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"Contestants will be expected to demonstrate installation, configuration and use of Windows, Mac OSX and Linux Professional Operating Systems and one or more integrated office suite packages including email, word processing, spreadsheet applications, database applications, web page development, money management applications, presentations applications, internet browser applications, etc. The use of Open source software such as OpenOffice will be preferable. Microsoft Office and other integrated office suites could be used. The utilization of instant messaging, collaboration and social networking software will be required during the contest. Contestants will be expected to perform in teams while demonstrating individual technical skills. The contest will include an oral presentation demonstrating the student's ability to communicate with others, a hands-on skills demonstration, and a one-hour time allotted written examination." (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name: **Web Design**

Shop Alignment: Programming and Web Design

Eligibility: All Students

Contest Type: Team (2 members)

In-House Competition: YES

District Event: YES—written test

State Event: YES—skill based

National Event: YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

"Teams will complete a series of challenges focusing on website usability and accessibility, with at least one challenge related to scripting. Each challenge must be documented, clearly demonstrating the skills as outlined in the SkillsUSA Championships Technical Standards…" (Contest Descriptions).

Source: "Contest Descriptions." SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.