WSBCSS / SBVC Welding Competition Outline

November 6, 2026

7:30AM - 2:00PM

Forms

- Student Liability Release Form
- Student Media Release Form
- Welding Safety Test

Competition Timeline

- Arrival & Check-In: 7:30 – 8:00 am
- Welder Meeting: 8:00 am (ID number issued at check-in and material stamped with ID number)
- Station Set-Up and Safety Meeting: 8:15 am
- Competition Start: 8:40 am
    - Each competitor will make welds with 2 different processes for Beginning and Advanced
    - Competitors will be given 20 minutes at each station to complete the required welds
    - Special Event (Team Fabrication) will have the entire time: 8:40am – 11:30am
- Completed Weld Turn-in/ Clean-Up: 11:30pm
- Lunch: 12:00 pm (box lunch provided after cleaning verification)
- Presentation: 12:30 – 1:00 pm
- Awards: 1:00 – 1:30 pm
- Load Buses: 1:30pm

Welding Projects:

- Basic
    1. OAW on 11GA Mild Steel in the Horizontal Position
    2. SMAW on ¼" Mild Steel in the horizontal position
- Advanced
    3. OAW on 11GA Mild Steel in the Vertical Position
    4. SMAW on various thicknesses of Mild Steel in positions other than flat

- Only 1 competitor in a booth during welding competition time

- Special Project (Team Fabrication) Fabrication project with an emphasis on accuracy of fit-up
    1. Expected skills for teams
        - Shop safety
        - Angle grinders
        - Chops saw's and or bandsaws
        - Fireball fab tables and fixtures
        - GMAW
        - Tape measures
        - Print reading and Welding symbols

- Note: Prints will only be available on the day of the competition

Scoring for Competition

There will be 3-4 judges –

- Basic and Advanced Categories
  - 40 points per weld joint (2 welds + safety=100 points)
  - Every weld will start with 40 points.

- Special Project
  - 80 points for the project (1 project + safety =100 points)

- Each judge will assign each weld/project points and the average of those scores will be awarded to the welder/team.
- Points will be reduced from total based on:
  - Defects such as undercut, overlap, underfill, porosity, slag, and color
  - Inconsistencies in width, height, and freeze line appearance
  - Placement and size
  - Heat input and/or burn-thru
  - Fit up not according to print
  - Measurements that are not within tolerance
  - Poor finish/cleaning
  - Distortion
- 20 points for safety
  - Safety will be judged during the competition.
  - Everyone starts with all 20 points. Points reduced for violations
  - Everyone will assist in cleanup at the end of the competition.

Provided Equipment

- Welding consumables
- Practice & Competition Materials
- OAW torch bodies and tips
- Misc. hand-tools
- Wire brushes
- Chop saws and/or bandsaws
- Fireball fab tables and fixtures
- Welding machines

Equipment to Bring:

- All necessary PPE
  - Safety Glasses
  - Helmet
  - Shade #5 goggles or face shield
  - Gloves
  - Welding Jacket
  - Proper Welding Attire
  - Tape measures

Rules for Competitions:

- Once the time starts for each process the competitor can take as much or as little time practicing as they wish but keep in mind that practice time is part of the competition time
- Once the time expires competitors will turn in their assigned competition marked pieces
- Competitors may finish early
- Points will be strictly awarded on weld quality, not the length of time used to make welds

- Only individual competitors are allowed in the welding stations during competition time

- Competitors are not allowed to ask or give other competitors assistance or feedback
- Teachers are not allowed to give guidance, assistance, or feedback during the competition
- Only SBVC judges may assist with equipment questions or troubleshooting
- Cell phones will not be allowed in the competition area
- No specific attire is required, but school logos are not permitted