

Welding

CHAIR: Greg Siepert

CO-CHAIR: N/A

CONTEST DATE: April 26, 2018

CONTEST LOCATION: Hutchinson Community College, Ade Wifco RCIC Building

UPDATE: Due to the possibility of rain on Tuesday/Wednesday and the potential for mud on the north side of the building, please use the main front entrance to the building. AW106 will be used as a gathering point before and after the contest.

CONTEST TIME: 6:00 am

PURPOSE: To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of Welding

ELIGIBILITY: Open to active SkillsUSA members enrolled in programs with welding as the occupational objective

CLOTHING REQUIREMENT: STRICT ENFORCEMENT of PPE (Personal protective equipment) will be observed during the welding competition. All issues concerning inadequate or inappropriate PPE must be resolved during the allowed check-in time for each student. If the issue cannot be resolved during this time period, the student will not be allowed to compete. Please review the list of PPE requirements for this will be strictly enforced.

Students are required to wear the Official SkillsUSA Kansas T-shirt and blue jeans (no tears, holes, or bagginess, rolled up pant legs or frayed jeans) clean and neat with appropriate LEATHER BOOTS for contest. Students may wear the Official SkillsUSA Khaki work shirt and pants (both the shirt and pants must be 100 percent cotton); black, brown or tan leather high-top work boots (no shoes of any kind, leather or otherwise). PLEASE review the new guidelines in the Technical Standard concerning the dress code. Compliance with this dress code will be assessed in the final score for each student. Denim or FRC Pants will be permitted.

** Safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)*

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Official SkillsUSA Kansas T-shirt attire



Official SkillsUSA blue work shirt attire



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Welding: 48 Max Contestants

FORMULA CONTEST:

The following schools/colleges may enter the following number of students in competition:

| | |
|--|----|
| Anderson County High School | 1 |
| Bluestem High School | 1 |
| Cowley Community College | 0 |
| Dodge City Community College | 1 |
| Eureka Jr./Sr. High School | 1 |
| Garden City High School | 1 |
| Highland Community College | 0 |
| Hutchinson CTEA | 2 |
| Hutchinson Community College | 1 |
| Kansas City Kansas Community College | 6 |
| Labette County High School | 1 |
| Marmaton Valley High School | 0 |
| Neosho County Community College | 10 |
| Newton High School | 2 |
| North Central Kansas Technical College | 2 |
| Northwest Kansas Technical College | 1 |
| Olathe Advanced Technical Center | 3 |
| Paola High School | 1 |
| Parsons High School | 1 |
| Perry-Lecompton High School | 1 |
| Remington High School | 1 |
| Salina Area Technical College | 1 |
| Seward County Community College | 1 |
| Tonganoxie High School | 0 |
| Washburn Institute of Technology | 1 |
| Wichita Area Technical College | 9 |

Formula: School Welding SkillsUSA member = ____ / 519 X 48 = # ____ School Contestants

519 = Number of Statewide AST SkillsUSA Members

48 = Maximum seating for contest

Example if your school had 28 members one would divide that number by 519 x 48 totaling 2.590 allowing that school to enter 2 student in the competition. The only time a number is rounded up if the number is below 0.1 giving that school an opportunity to compete. Exception to the rule would be if we did not max out the contest availability. Another exception to the rule would be if we exceeded the Max capacity of the contest then we may eliminate schools that only enroll 1-2 members to compete in a particular formula contest. The schools that may be eliminated from the formula contest are encouraged to enroll students in the Job Skill A or Job Skill Open contest still giving students the opportunity to win a medal and possibility attend the National Conference.

NOTE: If your school was eliminated from the formula due to low enrollment, or if you would like more students to compete in this contest from your school, fill out the Contest Alternate Form. If a spot comes available, we select from the forms submitted.

CONTEST UPDATES:

ATTENTION!!!!!!!

STRICT ENFORCEMENT OF PPE (Personal protective equipment) WILL BE OBSERVED DURING THE 2018 WELDING COMPETITION.

ALL ISSUES CONCERNING INADEQUATE OR INAPPROPRIATE PPE MUST BE RESOLVED DURING THE ALLOWED CHECK-IN TIME FOR EACH STUDENT. IF THE ISSUE CANNOT BE RESOLVED DURING THIS TIME PERIOD, THE STUDENT **WILL NOT BE ALLOWED TO COMPETE**. PLEASE REVIEW THE LIST OF PPE REQUIREMENTS FOR THIS WILL BE STRICTLY ENFORCED.

- Each student contestant is assigned a specific check-in time this is the time listed on the schedule sheet provided by Skills USA Kansas.
- Prior to the contestant's check-in time they are welcome to wait in the designated gathering area in the Ade-Wifco RCIC building.
 - The designated gathering area will be accessed by following the signs around the back of the building. Do not enter the main entrance of the building!!! **UPDATE: Due to the possibility of rain on Tuesday/Wednesday and the potential for mud on the north side of the building please use the main front entrance to the building. AW106 will be used as a gathering point before and after the contest.**
- You will not check-in prior to your assigned time.

- A contest judge will come get each group of 4 contestants from the gathering area at the designated time.
- This time slot will be the only opportunity for the student to enter the competition.
- Contestants will not be able to return to the check-in area after the contest. Advisors will be allowed to join their students during check-in and take all un-needed equipment and gear back to the gathering area. After the contest contestants will be allowed to return to the gathering area to pick up their stuff.
- Once contestants leave the check-in area for the written test they are to have no further contact with their advisor.
- Contestants not having the required PPE during check-in will not be allowed to enter the contest at a later time.
- **No communication devices will be allowed in the competition area.**

Contest Format

1. Check-In (25 minutes) – Contest begins for the contestant (5 minute rotation time)
2. Written Test (25 minutes) (5 minute rotation time)
3. GMAW Process (25 minutes) (5 minute rotation time)
4. SMAW Process (25 minutes) (5 minute rotation time)
5. FCAW Process (25 minutes) (5 minute rotation time)
6. Oxy-Fuel Cutting (25 minutes) (5 minute rotation time)
7. GTAW Process (25 minutes)

(5 minute rotation time)

PLEASE REVIEW THE NEW GUIDELINES PROVIDED BY SKILLSUSA (see skillsusastore.org ref. #101-12xx) CONCERNING THE DRESS CODE.

COMPLIANCE WITH THIS DRESS CODE WILL BE ASSESSED IN THE FINAL SCORE FOR EACH STUDENT. DENIM OR FRC PANTS WILL BE PERMITTED.

Welding Schedule Set:

| TIME | CONTESTANT # | STUDENT | SCHOOL/COLLEGE |
|---------|--------------|--------------------|-------------------------|
| 6:00 am | | Austin Edwards | Hutchinson CC-CTEA |
| | | Kyler Edwards | Hutchinson CC-CTEA |
| | | Brady Revenstien | Hutchinson CC-CTEA |
| | | Blayze Showalter | Hutchinson CC-CTEA |
| 6:30 am | | Lane Schwerdtfeger | Wichita Area TC |
| | | Dylan Boese | Newton HS |
| | | Isaac Weiser | Newton HS |
| | | Rigoberto Torres | Newton HS |
| 7:00 am | | Walker Stapleford | Eureka Jr./Sr. HS |
| | | Eathan Elliott | Bluestem HS |
| | | Chandler Hamilton | Bluestem HS |
| | | K.C.Winter | Wichita West HS |
| 7:30 am | | Jesus Felix | North Central Kansas TC |
| | | Sage Klein | North Central Kansas TC |
| | | Chase Mueller | North Central Kansas TC |
| | | Wayne Sprague | North Central Kansas Tc |
| 8:00 am | | Chris Rupp | Manhattan Area TC |
| | | Alec Horned Eagle | Highland CC |
| | | Justice Pugh | Marmaton Valley HS |
| | | Jesse Bruner | Washburn Tech |
| 8:30 am | | Hunter Butler | Seward County CC |
| | | Cheyne Sumner | Seward County CC |
| | | Quinton Ellis | Dodge City CC |
| | | Samuel Colvin | Northwest Kansas TC |
| 9:00 am | | Kieran Graf | Northwest Kansas TC |

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| | | Evan Tasker | Northwest Kansas TC |
| | | Tristan Williams | Northwest Kansas TC |
| | | James Oritiz | Garden City HS |
| 9:30 am | | Jared Kile | Kansas City Kansas CC |
| | | Cody Foos | Olathe Advanced TC |
| | | Kyle Fuhrman | Olathe Advanced TC |
| | | Cameron Kohl | Olathe Advanced TC |
| 10:00 am | | Christopher Macaluso | Olathe Advanced TC |
| | | Collin Wall | Olathe Advanced TC |
| | | Gentry Dougherty | Neosho County CC |
| | | Ethan Gough | Neosho County CC |
| 10:30 am | | Ty Griffiths | Neosho County CC |
| | | Gage Jones | Neosho County CC |
| | | Beau Kincaid | Neosho County CC |
| | | John Louk | Neosho County CC |
| 11:00 am | | Jordan Myers | Neosho County CC |
| | | Chase Sexton | Neosho County CC |
| | | Kadyn Utley | Neosho County CC |
| | | Nickolas Vaughn | Neosho County CC |
| 11:30 am | | Cody Smith | Tonganoxie HS |

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TOOLS / SAFETY EQUIPMENT

No communication devices will be allowed in the competition area.

No contact by teachers or coaches during the competition.

Each contestant will supply the following safety equipment:

- Welding cap/beanie
- Hearing and/or ear protection
- Eye protection (must have side shields or fit over prescription glasses)
- Welding Jacket, Leather Cape Sleeves (and bib) or FR Welding Shirt (Long sleeved t-shirt, flannel shirts, or “heavy” button front shirts will not be acceptable if it isn’t designed for welding don’t try it!!!)
- Full length jeans without holes
- Leather boots
- Welding gloves—full length (gauntlet) for SMAW, GMAW, and FCAW
- Welding gloves — appropriate for GTAW
- Welding helmet with appropriate filter plate/lens and protective cover lens for tacking and welding; auto darkening filter plate/lens permissible. Spare filter plate and cover lens
- Cutting goggles—with shade 5 lens/cover lens for OFC/PAC; helmet with shade 5 capability permissible; face shield head gear with shade 5 permissible. Spare filter and cover lens
- Pocket calculator – Not for weld settings
- Fillet weld gauges—standard set
- Lead pencil
- Soap stone (with or without holder) or silver pencil
- Sharpie type marker
- Scribe with or without magnet

- Compass
- Protractor
- Combination square set
- 10-foot (3.1 meters) minimum steel tape measure
- 16-ounce (.45 kilogram) ball peen hammer
- Center punch
- Cold chisel
- 11R or 10-inch (254 millimeters) vise grips
- 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers
- 6-inch (152 millimeters) needle nose pliers – welpers permissible
- Chipping hammer
- Stainless steel wire brush for GTAW
- Carbon steel wire brush for SMAW
- Friction lighter (striker) and tip cleaner
- A one-page résumé to submit in hard copy format at check-in.
Failure to do so will result in a 10-point penalty.

PPE will be strictly enforced

All tools will be placed into a bucket that is provided by the contest committee during check in.

Only the tools on the list above are allowed into the contest.

No copies of the pre-test or outside notes are allowed.

Slide-rulers with welding settings, welding guides and other information are not allowed.

Each contestant will be given a set of welding /cutting print and welding procedures before the start of each portion of the contest.

All students are required to wear the Skills T-shirts or contest official dress for the competitions.

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DEMONSTRATION:

AWS SENSE WPS WILL BE USED FOR WELDING PARAMETERS. PLEASE REVIEW THESE DOCUMENTS WITH YOUR STUDENTS PRIOR TO THE WELDING COMPETITION.

Each student will be expected to demonstrate the following process:

| PROCESS | POSITION | EQUIPMENT |
|---|------------------------|---|
| GENERAL KNOWLEDGE TEST | | #2 Pencil |
| **Test will include 50 multiple choice questions covering GMAW, GTAW, SMAW, FCAW, welding symbols and general welding knowledge. This will also be used as the tie breaker for the contest. | | |
| GMAW-S | 2F, 3F, 4F, 1G, 2G, 3G | Millermatic 252 |
| **SHORT-CIRCUIT WITH AR/CO2 75/25 | | |
| SMAW | 2F, 3F, 4F, 1G, 2G, 3G | Lincoln Invertec 275S |
| ** E6010 AND 7018 WILL BE USED ON THIS EXAM | | |
| FCAW | 2F, 3F, 1G, 2G, 3G | Millermatic 252 |
| **E71T-1 WITH AR/CO2 75/25 | | |
| OXY-FUEL CUTTING | FLAT | Victor Performer Cutting Torch with Edge style Regulators |
| **Acetylene Fuel Gas | | |
| GTAW | 2F, 3F, 1G, 2G | Lincoln Square-wave 200 |
| **All consumables will be provided | | |

All projects will have blueprint provided with a tolerance of +/- 1/16" unless otherwise noted on the individual blueprint or feature.

IMPORTANT:

WHILE WELDING, BASE PLATE DESIGNATED "A" MUST REMAIN IN THE HORIZONTAL AND IN FULL CONTACT WITH WELDING TABLE. ONE WARNING WILL BE GIVEN BEFORE THE LOSS OF POINTS.

CONTESTANTS DEMONSTRATING UNSAFE BEHAVIOR WILL BE STOPPED BY THE FLOOR JUDGE AND PREVENTED FROM MOVING FORWARD IN THAT INDIVIDUAL PORTION OF THE CONTEST. THIS WILL BE DOCUMENTED ON THE SCORE SHEET AS TO WHY THE CONTESTANT WAS STOPPED.

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TEACHERS, ADVISORS, ADMINISTRATORS OR COACHES WILL NOT HAVE ANY CONTACT WITH THE COMPETITORS DURING THE COMPETITION AFTER THEY MOVE FROM CHECK-IN AND ONTO THE WRITTEN TEST.

THERE WILL BE NO COMMUNICATION DEVICES ALLOWED AFTER THE STUDENT CHECKS IN. SIMPLY PUT, IF CAUGHT – YOU ARE DISQUALIFIED.

NOTE: Any questions concerning the operation of the equipment used during this competition should be direct to:

Miller – www.millerwelds.com

Byron Nield

byron.nield@millerwelds.com

316-665-2439

Millermatic 252 - https://www.millerwelds.com/files/owners-manuals/O230693L_MIL.pdf

Lincoln Electric – www.lincolnelectric.com

Andrew Lochotzki -

andrew_lochotzki@lincolnelectric.com

913.302.2107

Invertec 275S – <http://www.lincolnelectric.com/assets/servicenavigator-public/lincoln3/im802.pdf>

Squarewave 200 - <http://www.lincolnelectric.com/assets/servicenavigator-public/lincoln3/imt10296.pdf>

ESAB/Victor – www.esabna.com

Mike Cook

mike.cook@esab.com

405-740-1210

Victor Oxy-Fuel Torches W/Edge Regulators -

<http://www.esabna.com/shared/documents/litdownloads/56-3260.pdf>

AWS SENSE WPS WILL BE USED FOR WELDING PARAMETERS. PLEASE REVIEW THESE DOCUMENTS WITH YOUR STUDENTS PRIOR TO THE WELDING COMPETITION.

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