

EAC SKILLS DAY APRIL 11, 2019

Students: To register, contact your teacher or your school's Career and Technical Education Director.

*Teachers and CTE Directors:
Register your students at:
www.eacskillsday2019.eventbrite.com*

*Contest Questions?
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*Registration questions?
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WELDING CONTESTS

WHO: Open to all high school juniors and seniors only. See below for contest requirements.

TIMES: See below in "General Guidelines"

WHERE: EAC Industrial Technology Building, Room #125 - Welding Shop

GENERAL GUIDELINES

- *These are "Come and Go" contests. Just get in line. The contestants will be taken in order of arrival.*
- *Contestants can position the work pieces for optimum welding. Welds will be judged on appearance and adherence to written instructions.*

RECOMMENDED ATTIRE

- *Long sleeve shirt or welding jacket.*
- *Welding hood and protective eyewear.*

OVERVIEW

ARC/STICK Welding (Limited to three students from each school)

Contestants will have 15 minutes to weld three pieces of flat hot rolled steel strip 1/4 x 2 x 3 inches each. You will use a butt weld and two inside corner fillet welds or tee welds to complete the project according to the specification sheet that will be provided. The electrode used will be 7018 1/8 diameter. There will be scrap metal in each booth to practice on and set up the arc-welding machine. Work pieces can be positioned for optimum welding penetration. Contestants are encouraged to be thorough in cleaning the weld with the chipping hammer and wire brush available in each booth.

Oxy-Acetylene Welding (Limited to three students from each school)

Contestants will have 15 minutes using a #0 victor oxy-acetylene welding tip and 1/16 inch diameter filler rod to join 14 gauge steel pieces with a butt and fillet weld. Contestants can position the work pieces for optimum welding.

Gas Metal ARC (MIG) Welding (Limited to one student per school)

You will have 15 minutes using the new miller wire feed welder with 035 S-6 wire and 75-25 shielding gas to weld three pieces of flat hot rolled steel strip that are 1/4 x 2 x 3 inches each. You will use a butt weld and two inside corner fillet welds or tee welds to complete the project according to the specification sheet that will be provided. There will be scrap metal in each booth that you can use to practice on and set up the arcwelding machine. Work pieces can be positioned for optimum welding penetration. You are encouraged to be thorough in cleaning the weld with the chipping hammer and wire brush available in each booth.

Gas Tungsten (TIG) Welding (Limited to one student per school)

You will have 15 minutes to weld three pieces of flat stainless steel 16 guage 304 strips 1 . x 3 inches long. Filler rod will be used; Argon shielding gas; parent material to parent material. You will use a butt weld and one inside corner fillet weld or tee weld to complete the project according to the specification sheet that will be provided. There will be scrap metal in each booth that you can use to practice on and set up the TIGwelding machine. Work pieces can be positioned for optimum welding penetration. You are encouraged to be thorough in cleaning the weld with the wire brush available in each booth. Welds will be judged on appearance and adherence to written instructions. You will be allowed TWO Tungsten contaminations before removal from contest.



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