Who: Open to all high school juniors and seniors only. See next page for contest requirements.

What: Skills Day 2013—Welding and Machine Shop Contests:
- Machine Shop
- Arc Welding
- Oxy-Acetylene Welding
- Gas Metal Arc Welding (MIG)
- Gas Tungsten Welding (TIG)

When: Tuesday, April 16, 2013

Where: Eastern Arizona College Industrial Technology Building (ITB), South Campus.
Welding - Room T-7; Machine Shop - Room T-16

Questions? Contact: Tad Dryden, EAC Machine Shop/Welding Instructor
(928) 428-8430, or (800) 678-3808, ext. 8430 or
E-mail: tad.dryden@eac.edu

Supplies needed: We recommend that you wear a long sleeve shirt for these contests or supply your own welding jacket. You should also supply your own welding hood. These are “Come and Go” contests. Just get in line. The contestants will be taken in order of arrival.

To register for EAC Skills Day 2012, please contact your teacher or your high school’s Career and Technical Education Director.

EAC Skills Day Coordinator:
Gayrene Claridge
(928) 428-8341 or (800) 678-3808, ext. 8341
E-mail: gayrene.claridge@eac.edu
Machine Shop  
*Limited to one student from each school in this contest.*
You will have 75 minutes to complete an aluminum lathe project by turning three diameters and facing to length according to drawing specifications. The turning and facing tool will be previously set up in the lathe. You will use the micrometer, venire caliper, and ruler to measure their projects. You will have an extra piece of stock you can use to practice on to help you become familiar with your machine. There will be lab assistants available to answer any questions.

*Location: Industrial Technology Building, Room T-16*

**ARC Welding** *(Also known as STICK)*  
*Limited to three students from each school.*
You will have 15 minutes to weld three pieces of flat hot rolled steel strip 1/4 x 1 1/4 x 3 inches each. You will use a butt weld and two inside corner fillet welds, or tee welds; according to a specification sheet you will be given. The electrode used will be 7018 1/8 diameter. There will be scrap metal in each booth that you can use to practice on and set up the arc-welding 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. Welds will be judged on appearance and adherence to written instructions.

**Oxy-Acetylene Welding**  
*Limited to three students from each school.*
You 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. You can position the work pieces for optimum welding. Welds will be judged on appearance and adherence to written instructions.

**Gas Metal ARC Welding** *(Also known as mig)*  
*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 1 1/4 x 3 inches each. You will use a butt weld and two inside corner fillet welds, or tee welds; according to a specification sheet you will be given. There will be scrap metal in each booth that you can use to practice on and set up the arc-welding 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. Welds will be judged on appearance and adherence to written instructions.

**Gas Tungsten Welding** *(Also known as tig)*  
*Limited to one student per school.*
You will have 15 minutes using the new miller SINCRIIO WAVE TIG runner welder to weld three pieces of flat stainless steel 16 gauge 304 strips 1 ¼ x 3 inches long. No 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, according to a specification sheet you will be given. There will be scrap metal in each booth that you can use to practice on and set up the TIG-welding 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.

*Location: All Welding Contests will be held in the Industrial Technology Building, Room T-7 on South Campus by Stadium Ave.*