

Welding & Fabrication offers many career pathways as a welder, welding technician, fabricator or welding supply representative, students have ample opportunities to advance directly into the workforce with the experience necessary to perform the duties this industry requires. Students will learn in a hands-on environment and explore arc welding, blueprint reading, metal inert gas welding and plasma cutting, oxy-acetylene cutting, and tungsten inert gas welding.

## STUDENT PURCHASED TOOLS:

Airgas in Lima will be able to order or have kits ready for you. You can call them at 419-228-2828. Another good place for inexpensive tools is Harbor Freight in Lima.

- Pair of welding gloves
- Ball peen hammer
- Tape
- Adjustable wrench
- Slag hammer w/steel handle chisel & pick end, wire brush
- Chisel
- Combination square 12"
- Welper or needle nose pliers
- Welding helmet with lenses #10, 3 clear plastic w/chipping lens (digital allowed)
- Large Vise grip 8"
- Center punch
- Magnet and scribe combination
- Striker
- Welding Cap
- Toolbox ( around 8x8x20) if too big it will not fit into our cabinet
- Safety glasses
- White paint marker
- Stainless steel protector (General No. 17)
- Metal thickness gauge ( General no. 21)
- Combination padlock to lock up toolbox
- 4 1/2" grinder (8 Amps or more)
- V-WAC gauge

## UNIFORM DETAILS:

Uniforms are ordered through the Apollo website. All students accepted prior to the first day of school are expected to be in uniform by September 16th. Students accepted within the first two weeks of school must be in uniform by October 1st. Students who are not in uniform by these deadlines may be sent home or have daily grade reductions for professionalism.

### Purchased through online portal:

- Work Shirt (Recommend purchasing 5)
- Crewneck sweatshirt (optional)
- Long-sleeve Tshirt (optional)

### Can be purchased anywhere:

- Steel Toed Boots
- Blue Jeans (no holes or fraying)

All first-year students will receive one short-sleeve spirit wear shirt and one long-sleeve program shirt the first day of school.

## SKILLS LEARNED:

- Arc welding
- Oxy-acetylene cutting
- Tungsten inert gas welding
- CNC plasma cutting
- Blueprint reading
- Gas metal arc welding, short arc, spray pulse/flux core
- Stick metal arc welding

## CREDENTIALS STUDENTS CAN EARN:

- AWS (12 Points)

## COLLEGE CREDIT:

Students may earn up to 9 hours of cost-free college credit.

## TYPICAL SCHOOL DAY SCHEDULE:

- 7:55 am – 2:25 pm
  - Buses leave at 2:20
  - Drivers at 2:25
- First-year students have lab in the morning and second-year students have lab in the afternoon.
  - Some schedules may vary.



## INSTRUCTORS

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