



Centralia College

Welding Technology

Welding is an industry that is expected to grow by 15 percent over the next 10 years. Welders are, and will continue to be, in high demand. It is expected that as infrastructure ages throughout the U.S., this demand will continue to grow. Welding technician jobs exist in nearly all manufacturing, construction, repair and processing industries. Welders are employed in vehicle and heavy equipment manufacturing, ship and aircraft building, bridge building, and pipeline construction. The list goes on. In general, if metal joining (welding) is a part of the manufacturing, construction or repair process, welding technicians are doing it. With a median annual income of \$44,025, and with medical and retirement benefits available at most jobs, the earning potential for welders is above the national average compared to most other occupations.

Our welding program prepares students to compete for jobs as an entry-level welder in the building trades.

Associate in Technical Arts in Welding Technology

The Welding Technology program at Centralia College prepares students to compete for employment as an entry-level welder in building trades, ship building, structural fabrication, automatic and semiautomatic welding, and in maintenance welding. In addition, the Welding Technology ATA program prepares students for advanced welding skills in Flux Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (TIG), Gas Metal Arc Welding (MIG), and Shielded Metal Arc Welding (SMAW or Stick) welding. Students will also have the opportunity to gain the Washington Association of Building Officials (WABO) Welding Certification.

The **Welding Certification of Proficiency** program can be completed in one year with our evening welding program. Classes are offered in the evening to provide students the flexibility of attending other classes during the day or accommodating working students who need to continue to work while earning their welding certifications.

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Occupational Outlook, Job & Salary Statistics

There are many local and regional employers in manufacturing, construction, and maintenance that require welding technicians. The average entry level wage for a welder in Washington state is \$15.75 per hour in the region and can be up to \$45 or more per hour for highly skilled certified welders.

For statistics on welding technician occupations, visit:

<http://www.bls.gov/ooh/production/welders-cutters-solderers-and-brazers.htm#tab-3>

<http://www.dol.gov/>

<http://www.wois.org/> (available for current students)

Wage statistics come from WOIS and are for Washington state

WABO link within body of text: <http://www.wabo.org/>



Welding Program Tool Lists

Required 1st and 2nd Year Supply List (day classes)

Protective Gear

- Tig welding gloves
- Arc welding hood (electronic hood strongly recommended)
- CLEAR LENS SAFETY GLASSES W/SIDE SHIELDS (absolutely required)
- Clear replacement lenses (3 – 4)
- Gas welding goggles or face mask
- Leather work boots (steel toe recommended)
- Leather welding jacket
- Heavy welding gloves (gauntlet style)
- Welding cap
- Ear muffs hearing protection

Welding Tools

- Scratch lighter
- Oxy-Fuel tip cleaner
- Steel wire brush
- Stainless steel wire brush
- Chipping Hammer
- Regular vice grip pliers
- Vice grip "C" pliers
- Regular pliers
- Channel lock pliers
- Adjustable 12" wrench
- Adjustable square
- 12" Quick Grip welding clamp (2)
- Large set Triangle magnets
- Small set Triangle magnets
- 4" Electric grinder w/ wire wheel, grinding wheels, flap sanding wheels
- Tape Measure
- "Sharpie" Markers
- Soapstone, Holder & Refills
- Tool Bag

Welding Program Tool Lists

WELD 180N – Required Tool List for TIG and OXY Welding

Protective Gear

- Tig welding gloves
- Arc welding hood (electronic hood strongly recommended)
- CLEAR LENS SAFETY GLASSES W/SIDE SHIELDS (absolutely required)
- Clear replacement lenses (3 – 4)
- Gas welding goggles or face mask
- Leather work boots (steel toe recommended)
- Leather welding jacket
- Welding cap

Optional

- 4" electric grinder w/wire wheel, grinding wheels, flap sanding wheels
- 12" quick grip welding clamp (2)
- Ear muffs
- Channel lock pliers

Welding Tools

- Scratch lighter
- Oxy-Fuel tip cleaner
- Steel wire brush
- Stainless steel wire brush
- Vice grip "C" pliers
- Regular pliers
- Regular vice grip pliers
- Adjustable 12" wrench
- Adjustable square
- Large set triangle magnets
- Small set triangle magnets
- Tape measure
- "Sharpie" markers
- Soapstone, holder & refills
- Tool bag

Welding Program Tool Lists

WELD 181N – Required Tool List for Shielded Metal Arc Welding (stick welding)

Protective Gear

- Arc welding hood (electronic hood strongly recommended)
- CLEAR LENS SAFETY GLASSES W/SIDE SHIELDS (absolutely required)
- Clear replacement lenses (3 – 4)
- Gas welding goggles or face mask
- Leather work boots (steel toe recommended)
- Leather welding jacket
- Welding cap
- Heavy welding gloves – gauntlet style

Optional

- 4" electric grinder w/wire wheel, grinding wheels, flap sanding wheels
- 12" quick grip welding clamp (2)
- Ear muffs
- Channel lock pliers

Welding Tools

- Scratch lighter
- Oxy-Fuel tip cleaner
- Steel wire brush
- Chipping hammer
- Vice grip "C" pliers
- Regular pliers
- Regular vice grip pliers
- Adjustable 12" wrench
- Adjustable square
- Large set triangle magnets
- Small set triangle magnets
- Tape measure
- "Sharpie" markers
- Soapstone, holder & refills
- Tool bag

Welding Program Tool Lists

WELD 182N – Required Tool List for Gas Metal Arc Welding (wire feed)

Protective Gear

- Arc welding hood (electronic hood strongly recommended)
- CLEAR LENS SAFETY GLASSES W/SIDE SHIELDS (absolutely required)
- Clear replacement lenses (3 – 4)
- Gas welding goggles or face mask
- Leather work boots (steel toe recommended)
- Leather welding jacket
- Welding cap
- Heavy welding gloves – gauntlet style

Optional

- 4" Electric grinder w/wire wheel, grinding wheels, flap sanding wheels
- 12" quick grip welding clamp (2)
- Ear muffs
- Channel lock pliers

Welding Tools

- Scratch lighter
- Oxy-Fuel tip cleaner
- Steel wire brush
- Chipping hammer
- Vice grip "C" pliers
- Regular pliers
- Regular vice grip pliers
- Adjustable 12" wrench
- Adjustable square
- Large set triangle magnets
- Small set triangle magnets
- Tape measure
- "Sharpie" markers
- Soapstone, holder & refills
- Tool bag