

## Employment Facts

According to the 2019 Idaho Career Information System—

- *Top Welders and Solderers, in Idaho*, earn a median wage of \$35,371 per year and openings are “very high”.
- Some states and employers require welders to be certified. Job prospects should be excellent for welders with the right skills. Many employers report difficulty finding qualified applicants.



This West Ada Agricultural Science and Technology program is recognized as one of the strongest and best programs in the state by the Idaho Vocational Agriculture Teachers Association. This highly functional program also received the professional Exemplary Program Award in 2011, which is the highest award a program can receive from the Idaho Division of Career & Technical Education.

Learn more about ...

CTE Magnet Programs at:  
[www.westada.org/CTE](http://www.westada.org/CTE)  
CTE Administrative Office - 208.350.5051

Career  
&  
Technical  
Education



AG, Welding/  
Fabrication &  
Natural Resources  
Pathway:  
**Welding**



**CTE**  
Career & Technical Education

## Overview

**Welding** training is offered through the Career & Technical Education (CTE) Center—Meridian Campus. Students engage in hands-on welding instruction in a state-of-art welding shop with machines sponsored and maintained by Miller—a key educational business partner and world leader in arc welding equipment. Miller selected this particular Welding program and technical center to become its regional training center. The partnership exemplifies a collaboration model that supports educational training for students while at the same time utilizes the use of the high tech equipment for workforce training.



### Certification:

Students may earn an American Welding Society SENSE Level One Certification. Also offering SkillStack badging.

## Course Offerings

### Recommended Prerequisites:

*(Many of the big home high schools offer the following recommended courses. Students who can take these classes their should do so. For students at high schools that do not offer these courses, those students may take them as a 10th grader at the CTE center.)*

- Introduction to Mechanics
- Intro to Small Gasoline Engines
- Personal Skills Development  
*(Counts as Speech credits)*



### CTE Center courses:

**Welding I**—In this class students develop skills in Arc and Oxy-Acetylene welding, and the joining of metal processes. Students must pass an introductory welding safety exam with a minimum score of 70% to earn the privilege of using the shop machines.

**Welding II**—Students are encouraged to take this class in the same year as Welding I. In this advanced class, students are introduced to advanced stick-arc welding, advanced Oxy-Acetylene, MIG, and TIG welding. Instruction also includes metal types, identification, surfacing, soldering and cold metal working.

### Welding III/AG Power Technology—

Students learn blueprint reading and become familiar with basic mechanical theory and skills in the welding industry. The course includes selecting, operation and maintenance of small air-cooled, multi-cylinder engines, hydraulics, and electric motors. Instruction also covers electricity and Plasma-Cam operation. Students are given the opportunity to certify in specific welding skills.

### Welding IV/AG Fabrication—

This course is offered for 1-3 credits. Students apply their welding skills to design, build, maintain and evaluate a welding structure using approved construction techniques with an emphasis on surveying and building industry materials.



### Optional Related Courses:

- **Consumer Economics/Agricultural Business & Economics** *(counts as Economics Credit towards graduation)*
- **Adv. Leadership in AG & Marketing**