# Heavy-Equipment Welding and Fabrication

## Description

If you are interested in pursuing a diesel technician career with a specialty focus in welding, College of Western Idaho's (CWI) Heavy Equipment Welding and Fabrication program can help you achieve your goals. In this program, you will start your education by taking the first year of Heavy-Duty Diesel Truck Technician training. After successfully completing the first year, you will move to CWI's Welding and Metals Fabrication program and complete one year of training to earn your degree.

## What You Will Learn to Do

- Work on small and large diesel powered equipment
- Diagnose and repair fuel systems, lubrication systems, cooling systems, hydraulic systems, power trains, electrical systems, and heating/ventilation/air conditioning systems
- Perform many welding processes, including Shielded Metal ARC Welding (SMAW) (STICK), Gas Metal ARC Welding (GMAW) (MIG), Flux Cored ARC Welding (FCAW), Gas Tungsten ARC Welding (GTAW) (TIG)
- Perform manual, semi-automatic, and automatic oxygen-acetylene burning
- Perform air carbon ARC and plasma cutting and gouging
- Operate fabrication tools and equipment
- Read blueprints
- Utilize appropriate fabrication techniques
- Maintain quality control
- Identify properties of materials
- Understand basic metallurgy

### Gainful Employment

For more information about our graduation rates, the median debt of students who have completed the program, and other important information, please visit our website at cwidaho.cc/ge [1]

### Associate of Applied Science in Heavy Equipment Welding & Fabrication

Degree Type:
AAS
Length:
24 Months
Delivery Formats:
Traditional

### Advanced Technical Certificate in Heavy Equipment Welding & Fabrication

Degree Type:
ATC
Length:
16 Months
Delivery Formats:
Traditional

## Important Dates for Credit Programs

| | Fall 2014 | Spring 2015 | Summer 2015 |
|---|---|---|---|
| **Registration Open** | April 14 | November 10 | April 13 |
| **Financial Aid Priority Date** | July 14 | December 1 | May 11 |
| **Admission Deadline** | August 8 | December 22 | May 15 |
| **Tuition and Fees Due** | August 22 | January 9 | May 29 |
| **Last Day to Register** | August 22 | January 9 | May 29 |
| **Classes Begin** | August 25 | January 12 | June 1* |
| *Some classes begin before this date. See class schedule [2] for more information. | | | |

Please refer to our Important Dates [3] for more information.

### Skills, Traits, and Prep Classes

- Mechanical aptitude
- Manual dexterity
- Ability to lift heavy objects
- Good physical condition
- Communication skills
- Problem-solving skills

- Troubleshooting skills
- Enjoyment of mechanical work
- Sound math and spatial skills
- Good hand-eye coordination
- Ability to work well on a team
- Precise attention to detail
- Solid reading skills

## Financial Aid Available

Did you know that as a student in this program you may be eligible for financial aid? Through grants, scholarships [4], and loans, more than 60 percent of first-time, full-time CWI students receive some form of financial assistance. To learn more about financial aid options and whether you may be eligible, visit Financial Aid [5].

## Tuition and Fees

Tuition for a full-time CWI student averages half the cost of a state university and a third of the cost of a private college. Tuition and fees vary based on program and residence. Visit Tuition and Fees [6] for more information.

## Advising

Navigating your way through college can be confusing, especially if you try to go it alone. CWI One Stop Student Services offers advising assistance, to help in deciding which courses you need to take to complete your educational goals. Visit Advising [7] for more information or contact One Stop Student Services [8] to schedule an appointment.

All students interested in pursuing this program must meet with an enrollment specialist prior to registration.

## Career Information

You will find work in many types of fields—working on equipment that ranges from rugged construction vehicles to giant earth movers, mining trucks, cranes, and pavers. These machines cost hundreds of thousands—even millions—of dollars and you will be trusted to care for and repair them.

Welding graduates are in demand locally, nationally, and internationally. Our students often find positions fabricating new products such as industrial machinery, steel structures, transportation equipment, railroad engines/cars, farm equipment, and more. Many graduates also find excellent self-employment opportunities in both urban and rural areas.

Professions

## Locations

# Nampa Campus Micron Center for Professional Technical Education

5725 E. Franklin Road, Nampa, ID 83687

## Program Contact

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Program Chair
Transportation [10]
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**Links**
[1] http://cwidaho.cc/ge
[2] http://cwidaho.cc/current-students/class-schedule
[3] http://cwidaho.cc/dates
[4] http://cwidaho.cc/scholarships
[5] http://cwidaho.cc/financialaid
[6] http://cwidaho.cc/tuition
[7] http://cwidaho.cc/advising
[8] http://cwidaho.cc/contact
[9] http://cwidaho.cc/person/faculty/steve-rayburn
[10] http://cwidaho.cc/department/transportation
[11] mailto:steverayburn@cwidaho.cc