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# **Welding and Metals Fabrication**

Welders are in high demand in shops and various construction locations, and CWI has programs that can be completed in one year to get you out of the lab and into your new career. This program prepares you for certification with the American Welding Society (AWS). Students learn MIG, TIG, stick arc, plasma, flux core, shielded metal arc, and other welding processes in our newly equipped facilities.

#### Video

CWI Welding and Metals Fabrication Program [1]

### Mission

Welding graduates are in demand locally, nationally, and internationally. Our students often find positions fabricating new products such as industrial machinery, steel structures, oil industry, transportation equipment, railroad engines/cars, farm equipment, and more. Many graduates also find excellent self-employment opportunities in both urban and rural areas. Our mission is to provide this opportunity to train in a field so widely sought after... and to enable our students to achieve their aspirations, by equipping them with the skill set needed to gain local, regional, national employment in our industry.

# Why This Program

Welders are in high demand in shops and various construction locations, and College of Western Idaho (CWI) has programs that can be completed in one year to get you out of the lab and into your new career. This program prepares you for certification with the American Welding Society (AWS). Students learn MIG, TIG, stick arc, plasma, flux core, shielded metal arc, and other welding processes in our newly equipped facilities.

# Additional Opportunities

Our welding department is very active in Skills USA, and competes at a local, regional and at times national level in our trade. Our students have requirements within Skills activities for community service projects. Group visits to local industrial partners are also included in the course.

# **Career Information**

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.

#### Slideshow Image



#### Announcements



# [2]Open House for In-Demand Careers

Explore College of Western Idaho (CWI) Career and Technical Education Welding and Metals Fabrication program an open house showcasing the program, labs, and classrooms. Attending the Open House will satisfy the mandatory program orientation requirement.

Wednesday, December 7 - 5:30-7:30 p.m. Learn More [2]

#### Welding & Metals Fabrication Program Orientation Notification

Sign up [3] to be notified of the next scheduled Welding program orientation. All new students must attend an orientation.

## Professions

- Welder [4]
- Fabricator [5]

# Skills, Traits, and Prep Classes

- Sound math and spatial skills [6]
- Mechanical aptitude [7]
- Good hand-eye coordination [8]
- Solid reading skills [9]
- Ability to work well on a team [10]
- Precise attention to detail [11]

# What You Will Learn to Do

- Perform many welding processes [12]
- Shielded Metal ARC Welding (SMAW) (STICK) [13]
- Gas Metal ARC Welding (GMAW) (MIG) [14]
- Flux Cored ARC Welding (FCAW) [15]
- Gas Tungsten ARC Welding (GTAW) (TIG) [16]
- Perform manual, semi-automatic, and automatic oxygen-acetylene burning [17]
- Perform air carbon ARC and plasma cutting and gouging [18]
- Operate fabrication tools and equipment [19]

- Read blueprints [20]
- Utilize appropriate fabrication techniques [21]
- Maintain quality control [22]
- Identify properties of materials [23]
- Understand basic metallurgy [24]

## Testimonial

"I am pleased to have this opportunity to comment on the important contribution the College of Western Idaho's Welding and Metals Fabrication program has made in providing candidates with welding and

Lois Melander, MotivePower

#### Tag Dump

Welding and Metals Fabrication Welder Fabricator Sound math and spatial skills Mechanical aptitude Good hand-eye coordination Solid reading skills Ability to work well on a team Precise attention to detail Perform many welding processes 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

#### Resources

Welding and Metals Fabrication Book and Tool List [25]

#### Department

Trades and Technology

#### Locations

Nampa Campus Micron Center for Professional Technical Education

### Program Department Chair / Contact

Mike Wheeler

#### Instructors

Malcolm Diamond Ben Bothman Brian Morton

#### Degree

Associate of Applied Science Degree in Welding and Metals Fabrication Advanced Technical Certificate in Welding and Metals Fabrication 1 Basic Technical Certificate in

# GE - Short URL

ge/welding

# Next Step Button

Apply Now [26]

# Flyer Link

http://cwidaho.cc/sites/default/files/pdf\_using\_mpdf/CWI\_Welding%20and%20Metals%... [27]

# **Request More Information - Emails**

onestop@cwidaho.cc,pte@cwidaho.cc

Source URL: http://cwidaho.cc/program/welding-and-metals-fabrication

#### Links

- [1] http://www.youtube.com/watch?v=xNteTCdc1SQ
- [2] http://cwidaho.cc/news/news-room/welding-and-metals-fabrication-open-house
- [3] http://pteprogramorientations.signupsheet.com/?i=TSwnjx34javYnsLApES7
- [4] http://cwidaho.cc/program-careers/welder
- [5] http://cwidaho.cc/program-careers/fabricator
- [6] http://cwidaho.cc/program-skills-traits-prep-classes/sound-math-and-spatial-skills
- [7] http://cwidaho.cc/program-skills-traits-prep-classes/mechanical-aptitude
- [8] http://cwidaho.cc/program-skills-traits-prep-classes/good-hand-eye-coordination
- [9] http://cwidaho.cc/program-skills-traits-prep-classes/solid-reading-skills
- [10] http://cwidaho.cc/program-skills-traits-prep-classes/ability-work-well-team
- [11] http://cwidaho.cc/program-skills-traits-prep-classes/precise-attention-detail
- [12] http://cwidaho.cc/program-learn-do/perform-many-welding-processes
- [13] http://cwidaho.cc/program-learn-do/shielded-metal-arc-welding-smaw-stick
- [14] http://cwidaho.cc/program-learn-do/gas-metal-arc-welding-gmaw-mig
- [15] http://cwidaho.cc/program-learn-do/flux-cored-arc-welding-fcaw
- [16] http://cwidaho.cc/program-learn-do/gas-tungsten-arc-welding-gtaw-tig
- [17] http://cwidaho.cc/program-learn-do/perform-manual-semi-automatic-and-automatic-oxygen-acetylene-burning
- [18] http://cwidaho.cc/program-learn-do/perform-air-carbon-arc-and-plasma-cutting-and-gouging
- [19] http://cwidaho.cc/program-learn-do/operate-fabrication-tools-and-equipment
- [20] http://cwidaho.cc/program-learn-do/read-blueprints
- [21] http://cwidaho.cc/program-learn-do/utilize-appropriate-fabrication-techniques
- [22] http://cwidaho.cc/program-learn-do/maintain-quality-control
- [23] http://cwidaho.cc/program-learn-do/identify-properties-materials
- [24] http://cwidaho.cc/program-learn-do/understand-basic-metallurgy
- [25] http://cwidaho.cc/sites/default/files/imce/PDF/programs/welding/welding\_book\_tool\_list\_2016-17.pdf
- [26] http://cwidaho.cc/future-students/associate-degrees-or-technical-certificates

[27] http://cwidaho.cc/sites/default/files/pdf\_using\_mpdf/CWI\_Welding%20and%20Metals%20Fabrication.pdf