



# DUAL ENROLLMENT ACADEMY for high school students



## WELDING / FABRICATION

### 22-credit Technical Diploma

Metal fabrication involves cutting, altering and shaping steel or other materials through the use of different tools, techniques and processes. Welding is then used to fuse or join the metals parts together. Fabrication and welding projects can involve simple, basic techniques, or they can be highly specialized and complex.

In the Welding / Fabrication program, develop skills in interpreting blueprints; creating the exact shape of a part for cutting, fabrication and welding; and producing quality parts through the use of different techniques and materials. Learn the basic skills necessary to program and operate computer-controlled press brakes and shears, plasma arc cutting machines and micro-processor-based power sources. Emphasis is placed on welding techniques and joining methods.

**WCTC'S DUAL ENROLLMENT ACADEMY (DEA)** is designed to give high school students a jump start in high-demand occupations, awarding participants with a WCTC credential(s) upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters, at WCTC participating in DEA.

Prospective students should have a strong interest in pursuing a career in their chosen program option. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet the WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program.

### Welding / Fabrication Courses

| Fall Semester                          | Credits |
|--|---------|
| 442-150 Gas Metal Arc Welding          | 4       |
| 457-110 Blueprint Reading - Fab        | 2       |
| 457-125 Manual Thermal Cutting Process | 1       |
| 457-160 Metal Fabrication 1            | -       |
| 422-103 Metals Technology              | 1       |

| Spring Semester                       | Credits |
|---------------------------------------|---------|
| 457-160 Metal Fabrication 1           | 5       |
| 442-180 Gas Tungsten Arc Welding      | 4       |
| 457-121 Automated Cutting Processes 1 | 2       |
| 804-107 College Math                  | 3       |

### DEA Students Earn

- GMAW/Fabrication Certificate
- Welding Technician Technical Diploma

Continue on your educational pathway using your DEA credits at WCTC.

### Next Steps

1. Meet with your High School Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC DEA.
2. Attend a Dual Enrollment Informational Session at WCTC.
3. Complete a WCTC Dual Enrollment Academy Application and submit it to your High School Counselor/Dual Enrollment Representative for approval prior to the posted deadline.

[www.wctc.edu/dual-enroll](http://www.wctc.edu/dual-enroll)



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800 Main Street, Pewaukee, Wisconsin 53072

Equal Opportunity Affirmative Action Employer/Educator

**Questions?** Contact the Dual Enrollment Academy Coordinator, at 262.691.5557 or [DEA@wctc.edu](mailto:DEA@wctc.edu)

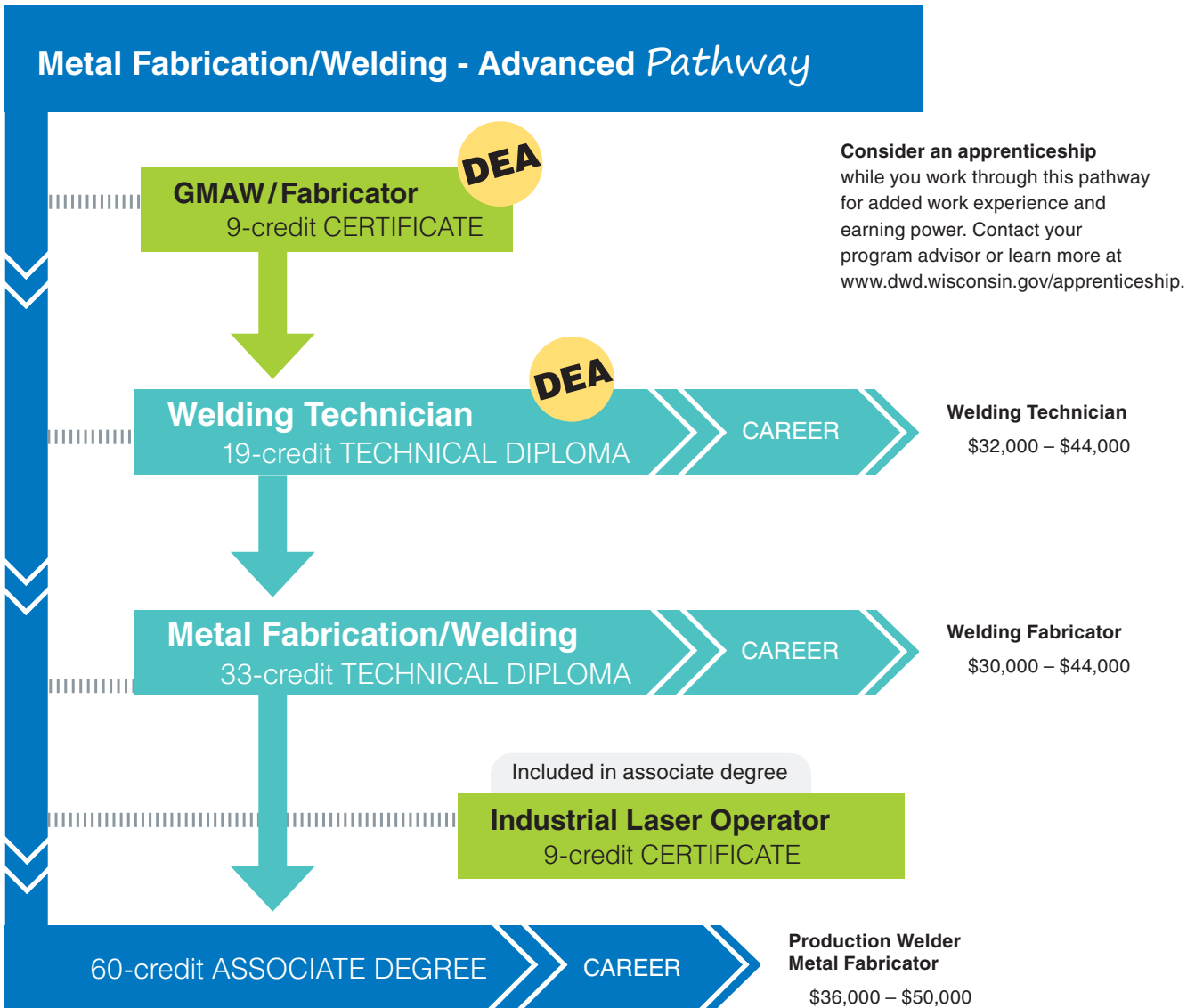
# Metal Fabrication/Welding - Advanced

[www.wctc.edu/metal-fab-adv](http://www.wctc.edu/metal-fab-adv)

# Pathway

**Discuss your pathway with an advisor. Call 262.691.5400 for an appointment.**

Earn certificates, technical diplomas and/or industry credentials along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.



Continue on your educational pathway to a bachelor's degree!

WCTC has many transfer agreements in place to make the process seamless.

To qualify for most federal and state financial aid, a student must be enrolled in a technical diploma or associate degree program.

Salary range estimates based on wages for related occupations in Waukesha County as reported by Economic Modeling Specialists International (EMSI). Individual wages may vary based on experience, industry, location and specific job requirements.

WCTC prohibits discrimination or harassment based on any status protected by applicable state or federal law.



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