



Spring 2022 Welding Technology Program Adult Class Information

Class Starts January 11, 2022

Registration Starts October 15, 2021

COURSE OFFERED:

Welding Technology - 12-Week Program **\$1,700**
Gas Tungsten & Gas Metal Arc Welding (TIG & MIG)
Please see course description on page 2 (on back page)

ORIENTATION & REGISTRATION INFO:

Register online at www.edenrop.adultprograms.org
click on Programs, Welding, and Apply Now. When registering, please
be sure to read the Orientation Page, and submit a payment

WHAT YOU NEED TO KNOW:

Course Day & Time:	TIG & MIG Welding Tuesday & Thursday 5:30PM—8:30PM 01/11/2022—03/31/2022
What You Will Receive:	Certificate of Class Completion (contingent on 95% attendance & a grade of C or better)
Course Costs:	\$1,700 (includes a non-refundable \$70 registration fee). Full payment of \$1,700 or partial payment of \$875 is required at registration, and \$850 (including a \$25 administrative fee) is due at half way mark of the class.
Registration/ Payment:	Register and pay online with debit or credit card at www.edenropadultprograms.org , click on Programs, click on Welding, Click on Apply Now. Please be sure to read the Orientation Page and submit a payment. Seats are available on first come first serve basis.

Course date, time, and fees are subject to change without notice.

No financial aid is available including FAFSA.

Scholarships for qualified HPN residents, call to inquire

For questions or to register, please contact us at:
(510) 293-2910 • adultinfo@edenrop.org
Adult Education Office (Room C12) • 26316 Hesperian Blvd.
Hayward, CA 94545 • www.edenropadultprograms.org
Gated parking lot located in the back of school passed the end of Kay Avenue

TIG Welding

GTAW (Gas Tungsten Arc Welding)

This program is devoted to hands on training in welding booths. Students learn how to operate GTAW equipment parts, how to set up Equipment, basic trouble shooting and maintaining equipment. Proper tungsten selection, preparation, and sizes. Learn Identification and Safety procedures for shielding gases. Safe handling and set up of gas regulators, cylinders. Student will learn how to strike and maintain an arc that results in a correctly sized and placed weld bead. Correctly prepare material to weld on.

Classroom learning and shop training on technical topics of GTAW include:

- Knowledge of process and procedures
- Welding safety
- Personal protective equipment
- Equipment setup
- Basic troubleshooting
- Metal preparation
- Torch manipulation
- Welding technique
- Shielding gases
- Tungsten selection and sharpening
- Weld positions F1, F2, and Welding steel in flat, horizontal, vertical.
- Weld positions G1,G2,
- Material and Rod selection
- Joints: Proper techniques for welding "tee", "lap", "corner", "butt", and "edge"
- Identifying welding distortion, defects; causes and cures
- Plasma cutting equipment and proper cutting techniques
- Abrasives and metal finishing applications: products and safety

MIG Welding

GMAW (Gas Metal Arc Welding)

GMAW, commonly known as MIG welding, is an extremely versatile process for joining metal. For those looking for a comprehensive training program in MIG welding, this class features a combination of classroom learning of safety, equipment, equipment set up, and proper welding techniques. Students will have "hands-on" practice with Miller MIG welding machines. Students will also have access to a variety of other metal shop equipment. This class is designed for beginners and those who want the basics of MIG welding. Upon completion of the class, students will be familiar with these topics:

Classroom learning and shop training on technical topics of GMAW include:

- Knowledge of process and procedures
- Welding safety
- Personal protective equipment
- Equipment setup for GMAW system
- Basic troubleshooting
- Metal preparation
- Torch manipulation
- Welding techniques
- Shielding gases
- Positions: Welding steel in flat, horizontal, vertical.
- Joints: Proper techniques for welding "tee", "lap", "corner", "butt", and "edge"
- Identifying welding distortion, defects; causes and cures
- Choosing proper filler metal alloy and size for the job
- Techniques for MIG welding thin sheet metal
- Plasma cutting equipment and proper cutting techniques
- Abrasives and metal finishing applications: products and safety