Eden Area ROP

Welding Technology Program

Class Starts 01/12/27 and Ends 3/30/27

Tuesdays and Wednesdays 5:30-8:30PM

COURSE OFFERED:

Welding Technology - 12-Week Program **$2,400**

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 Tuesdays & Wednesdays, 01/12/27 — 03/30/27 5:30PM — 8:30PM
What You Will get:	Certificate of Class Completion (contingent on 95% attendance & a grade of C or better)
Costs:	$2,400 (includes a non-refundable $70 registration fee). Full payment or partial payment of $1,225 is required at registration, and $1,200 (including a $25 a administrative fee) is due at half way mark of the Class 2/17/27.
Registration:	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 pay, first in 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.edenrop.org
Gated parking lot located in the back of school passed the end of Kay Avenue

REV 9/14/26

Our hands-on welding technology course is designed to instruct and give practice time with GMAW, GTAW, and SMAW. Students will have hands-on training in the welding booths and access to a variety of other metal shop equipment. We expose students to different materials and scenarios preparing them for a position as an entry-level technician. In addition to 72 hours of machine time, students will learn:

- **Knowledge of process and procedures**
- **Welding safety and personal protective equipment**
- **Equipment setup, maintenance, and basic troubleshooting**
- **Blueprint interpretation and symbol reading**
- **Metal/ gas selection and preparation**
- **Plasma metal cutting Techniques**
- **Welding techniques and identify welding defects**

MIG Welding GMAW (Gas Metal Arc Welding)

GMAW, commonly known as MIG welding, is an extremely versatile process for joining metal. Students will have "hands-on" practice with Miller MIG welding machines.

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

- **Metal preparation, torch manipulation, welding technique, shielding gases**
- **Weld positions: welding steel in flat, horizontal, vertical**
- **Weld 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**

TIG Welding GTAW (Gas Tungsten Arc Welding)

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

- **Proper tungsten selection, preparation, and sizes.**
- **Learn Identification and Safety procedures for shielding gases.**
- **Safe handling and set up of gas regulators, cylinders.**
- **Learn how to strike and maintain an arc that results in a correctly sized and placed weld bead.**
- **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, and material and Rod selection**
- **Weld 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**

Stick Welding SMAW (Shield Metal Arc Welding)

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

- **Electrode Selection**
- **Learn proper Technique**
- **Identifying welding distortion, defects, causes and cures**
- **Weld positions: welding steel in flat, horizontal, vertical**