# HEYWARD CAREER & TECHNOLOGY CENTER

# WELDING TECHNOLOGY PROGRAM

## 2026-2027 SCHOOL YEAR

# THIS PACKET IS FOR STUDENTS AND PARENTS!

# PROGRAM OVERVIEW

Welding Technology is a four-semester program for grades 10–12 that provides students with the knowledge and skills needed for welding and metal fabrication. Students learn a variety of welding processes, blueprint reading, metal properties, and safe shop practices while developing hands-on fabrication experience. The program emphasizes precision, multi-position welding techniques, and industry standards, preparing students for certification and careers in welding and related fields.

# Program Structure & Prerequisites

**Welding Technology 1 (Grades 10–11)**
Introduces students to welding fundamentals, safety, and shop organization. Students practice oxyfuel and plasma arc cutting, air carbon arc gouging, base metal preparation, weld quality, and SMAW equipment setup. This course builds a strong foundation for future welding courses.
**Prerequisites:** None

**Welding Technology 2 (Grades 10–11)**
Focuses on hands-on SMAW welding skills. Students practice beads and fillet welds, joint fit-up, and groove welding while developing precision and multi-position techniques. Prepares students for intermediate welding and more complex projects.
**Prerequisites:** Completion of Welding Technology 1 with a "C" or better and instructor recommendation

**Welding Technology 3 (Grades 11–12)**
Builds intermediate welding skills with GMAW plate fillet welds. Students learn welding symbols, blueprint reading, metal properties, preheating and post-heating, and practical GMAW/FCAW applications. Prepares students for advanced welding techniques.
**Prerequisites:** Completion of Welding Technology 2 with a "C" or better and instructor recommendation

**Welding Technology 4 (Grades 11–12)**
Provides advanced instruction in GMAW, FCAW, and GTAW (TIG) welding. Students refine multi-position and precision welding, learn equipment setup and filler metal selection, and complete complex fabrication projects. Prepares students for certification and careers in welding.
**Prerequisites:** Completion of Welding Technology 3 with a "C" or better and instructor recommendation

## Qualifications for Enrollment

Must be on pace with expected class prerequisites for graduation
Must be on track with current Individual Graduation Plan (IGP)
Additional factors considered for acceptance:

- Teacher recommendation
- GPA
- Attendance Record
- Disciplinary Record
- Interview
- Verification of Valid Medical Insurance

## Dress Code / Required Attire

- Welding Gloves (Leather)
- Long Pants (Cotton or Denim; No Shorts or Skirts)
- Safety glasses (ANSI-Approved, Must Be Worn at All Times)
- Steel-Toed Boots (Closed-Toe, High Ankle Preferred)
- No Loose Jewelry or Dangling Accessories
- Long Hair Tied Back or Contained
- No Loose or Baggy Clothing
- No Open Toe Shoes
- No Synthetic Fabrics (Nylon or Polyester)

## Opportunities for Successful Completers

Students who successfully complete the Welding Technology program will have access to:

- Industry-recognized certifications (AWS Entry Level Welder)
- Career pathways in welding, fabrication, and manufacturing industries
- Advanced technical skills aligned with national and international standards
- Competitive advantage for employment in high-demand skilled trades
- Preparation for post-secondary education in welding technology or related fields
- Leadership and networking opportunities through SkillsUSA and AWS

All student candidates **MUST** meet graduation prerequisites and maintain progress on their IGP. Failure to meet these requirements may result in denial of program admission.

Students Must:

- Meet the standards in the district's curriculum guide outline
- Complete written and reading assignments from textbooks and related industry materials
- Students are responsible for being in class every day
- Students understand they will write papers, do projects, and work with all four core subjects
- Be prepared for class by bringing required materials to class – books, paper, pens, pencils, computer
- Upholding the proper dress code by the district and the welding shop
- Students are responsible for providing steel toe shoes/boots and work pants
- All pants must be worn around the waist
- No excessive skin exposed
- No hoodies or hats to be worn while in the building
- All clothes must be worn in a professional manner
- Students are to display a professional attitude towards themselves and others
- No excessive profanity and vulgar language will be tolerated
- Pass OSHA safety test with 100%
- Students will participate in teambuilding activities
- Must successfully pass 9th grade with a C average
- Students must be in good standing with all other classes
- Teacher recommendation and C average for all upper levels

## TIMELINE FOR STUDENTS AND PARENTS

A timeline for the Welding Technology program has been established as follows:

- **October 10, 2025**
    - Program Overview, Application submitted to feeder schools/students

- **March 20, 2026**
    - Deadline for submission of Student Applications from Feeder Schools

- **April 13-30, 2026**
    - Student Interviews conducted by Heyward staff

- **May 15, 2026**
        - ♣ Acceptance Letter Mailed to Parents and Feeder Schools Notified
        - ♣ Waiting List Established

## Personal Information

**Name: _____**
**Last First Middle**

**Street Address: _____City: _____ Zip Code: _____**

**Phone Number: _____ E-mail: _____**

**Date of Birth: _____ Age: _____Current Grade: _____**

**Teacher Recommendations** ***(Provide 2 different teacher references)***
**Teacher Recommendation 1**
**Teacher's Name: _____**
**Courses Taught:_____**
**Phone Number: (____)_____ Email: _____**
Explain why this student would be a good fit for the Welding Technology program Heyward:_____
_____
_____
_____
**Signature:_____**

**Teacher Recommendation 1**
**Teacher's Name:_____**
**Course(s) Taught:_____**
**Phone Number: (____)_____ Email: _____**
Explain why this student would be a good fit for the Welding Technology program at Heyward:_____
_____
_____
_____
**Signature:_____**

***STUDENT:***
***Attach a typed paper describing why you want to enroll in Welding Technology***

**FOR OFFICE USE ONLY**

**GPA: _____ UNEXCUSED ABSENCES: _____ REFERRALS: _____ STUDENTS ID #: _____**

## STUDENT AND PARENT AGREEMENT

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**Parent and Student Agreement:**

I understand the requirements for being enrolled in the Heyward Welding Technology Program. I agree to allow my child to participate, and I understand that completing this agreement does not guarantee my child's acceptance into the program.

Student's Name (please print):

_____

*(Last, First, Middle Name)*

Student's Signature: _____

Feeder School: _____

Parent's Name (please print): _____

Parent's Signature: _____

Date: _____