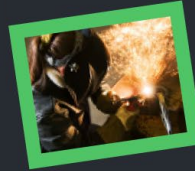
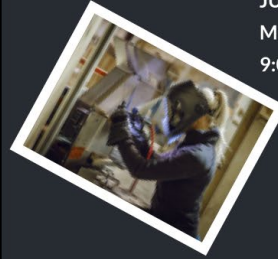


### WHAT ARE WE DOING?

- WELDING SAFETY
- GAS METAL ARC WELDING
- SHIELDED METAL ARC WELDING
- TORCH AND PLASMA CUTTING
- GUEST SPEAKERS
- FIELD TRIPS



JUNE 6 - 30, 2022  
MONDAY-THURSDAY  
9:00 AM - 3:00 PM

School year 22-23  
10th - 12th grade girls

## GIRLS WHO WELD

Girls Who Weld is an exploratory course geared towards females and designed with girls in mind. The purpose is to expose girls to welding and related careers and to act as a survey course for future enrollment.

The class will be held at Hutchison High School. There is no cost to attend.

Closing date: June 1, 2022 or until class is full.

[sign up here](https://forms.gle/Wn9qEDKzdKoCfxHy6)

<https://forms.gle/Wn9qEDKzdKoCfxHy6>

# Girls Who Weld





Women in Welding:  
Design in the Workplace Virtual Conference 2022

*Certifies That*

**Peter Charles Daley**

*Has Completed the  
WIW: Design in the Workplace  
Virtual Conference 2022  
3 Professional Development Hours*

March 29, 2022

*Date*



*Pedro Cevallos*

**Pedro Cevallos, Ed.D.**

*Head of Business Development, Educational Services*

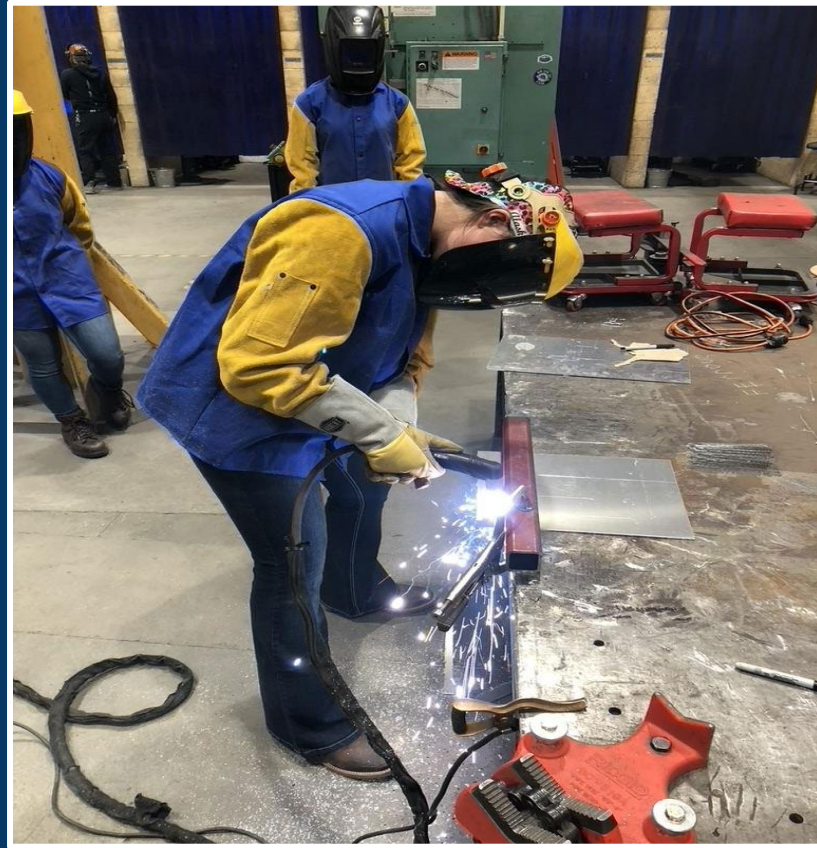
# Class Schedule

June 6	Introductions, Syllabus, Safety, Shop Tour, Scavenger Hunt
June 7	Safety, GMAW Demo, GMAW Practice, Plasma Demo, Plasma Practice
June 8	Safety, GMAW Practice, Plasma Practice
June 9	Career Profiles, GMAW Practice, Plasma Practice
June 13	SMAW Demo, SMAW Practice, OFC Demo, OFC Practice
June 14	Alaska Works Partnership, Jessica Krier, SMAW Practice, OFC Practice
June 15	IBEW, Phelan Green, SMAW Practice, OFC Practice
June 16	Fort Knox, Mary Chowaniec, SMAW Practice, OFC Practice
June 20	Plan Group Projects, Start Projects
June 21	Group Projects
June 22	NEA Visitors, Group Projects
June 23	NEA Visitors, Group Projects, Air Gas Open House & Lunch
June 27	Stephanie Lockwood, Hilcorp, Individual Projects
June 28	Field Trip Universal Welding, Individual Projects
June 29	Finish Individual Projects
June 30	Finish Individual Projects, Group Photo, Class Survey

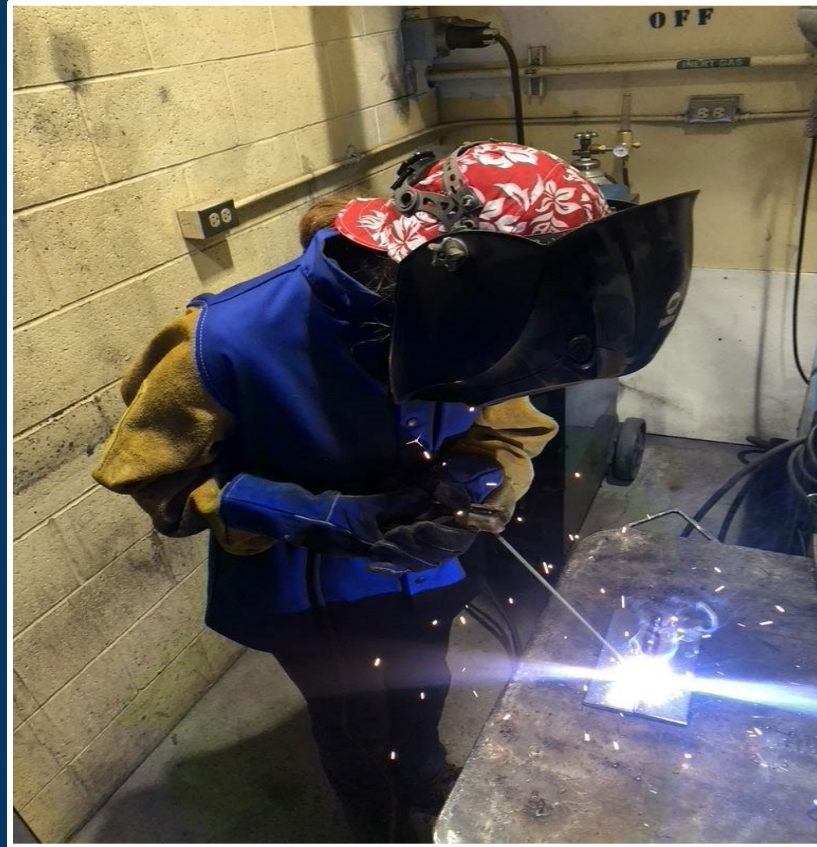
# Gas Metal Arc Welding (GMAW)



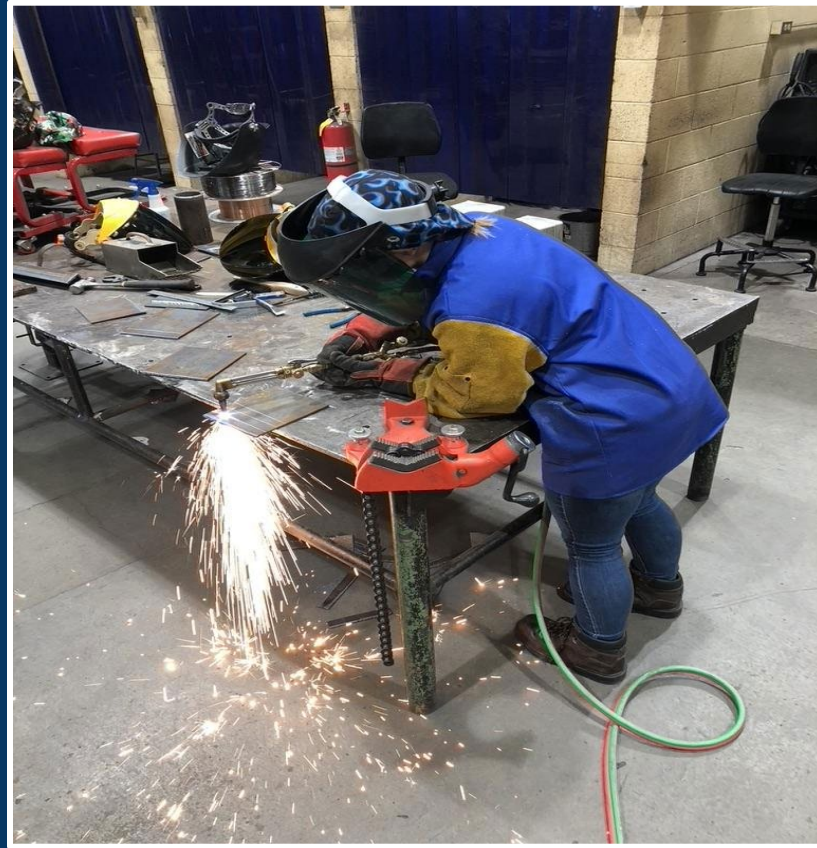
# Plasma Arc Cutting



# Shielded Metal Arc Welding (SMAW)



# Oxy-Fuel Cutting (OFC)



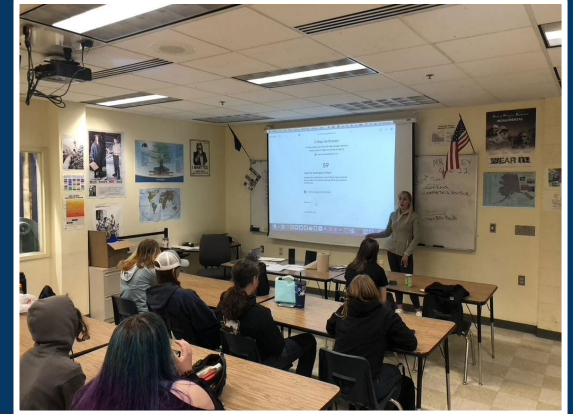
# Career Information



Alaska Works Partnership

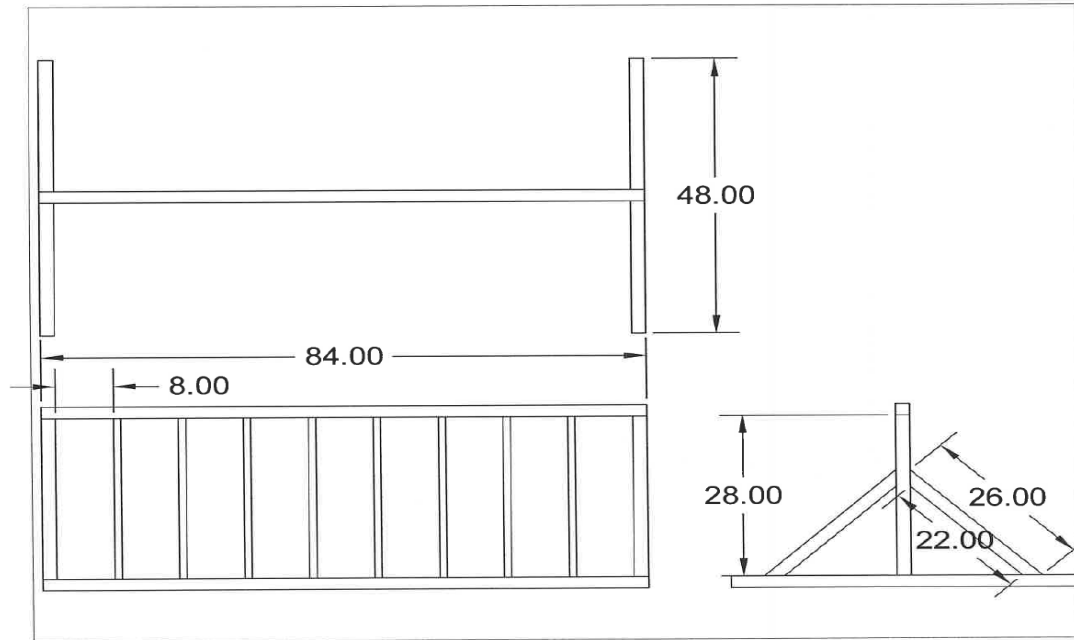


IBEW



Fort Knox Mine

# Bike Racks

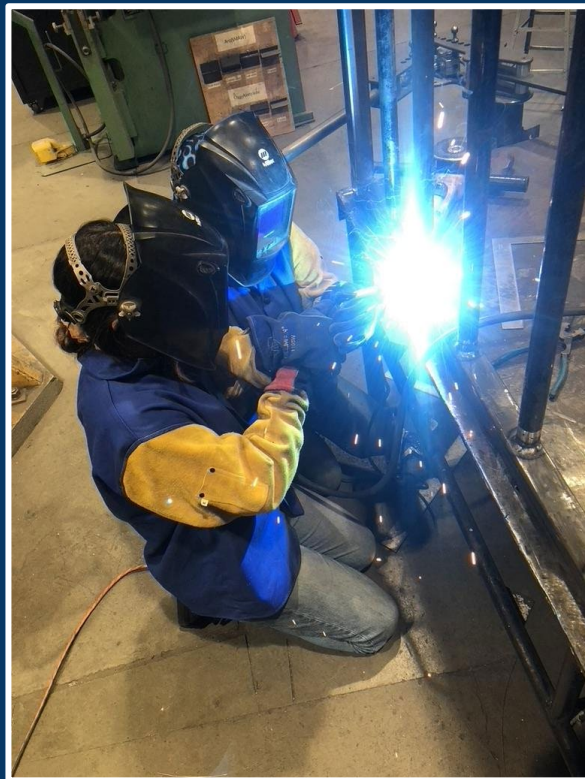
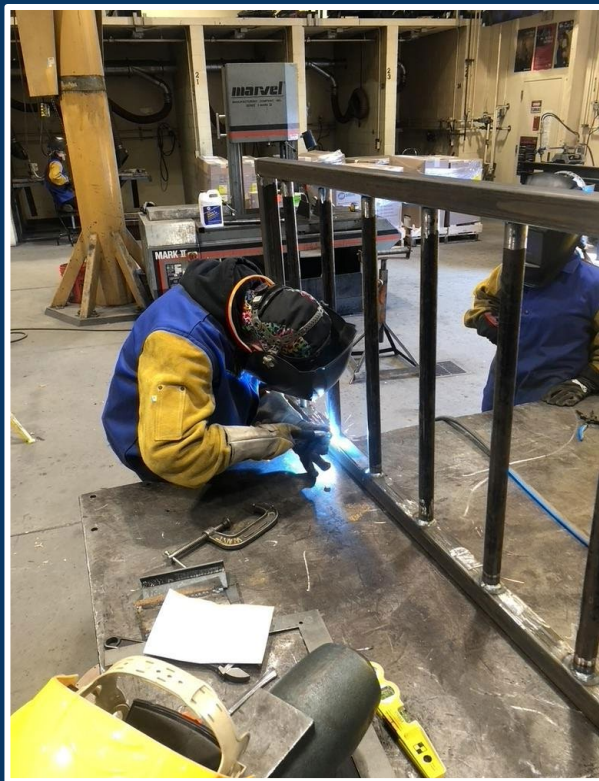


GIRLS WELDING

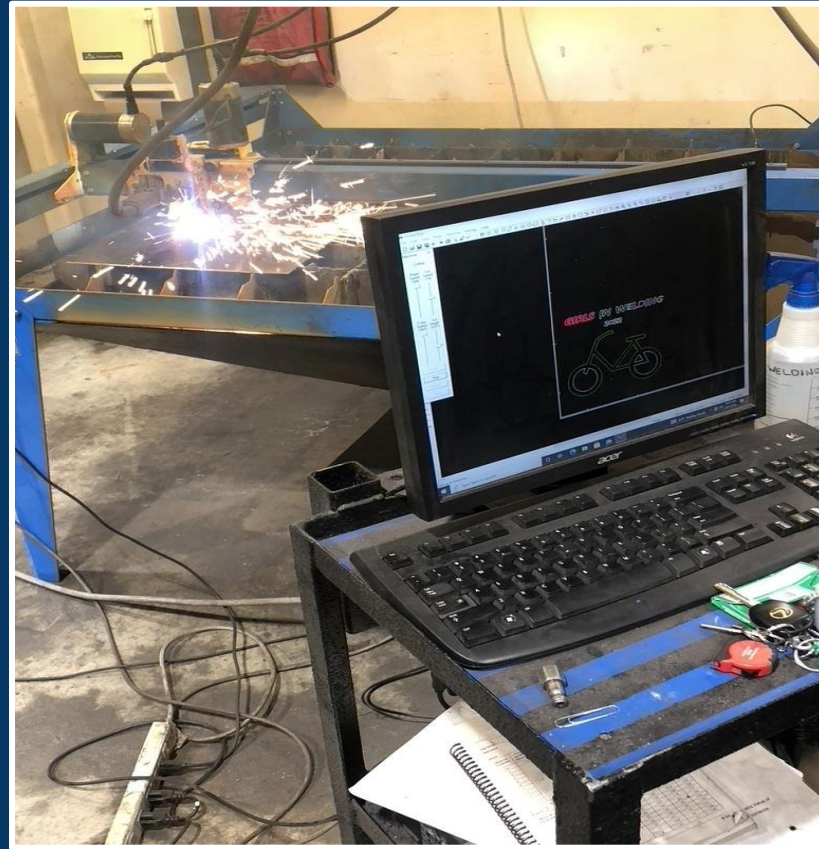
BIKE RACK

JUNE 2022

# Bike Rack Fabrication



# CNC Plasma Table



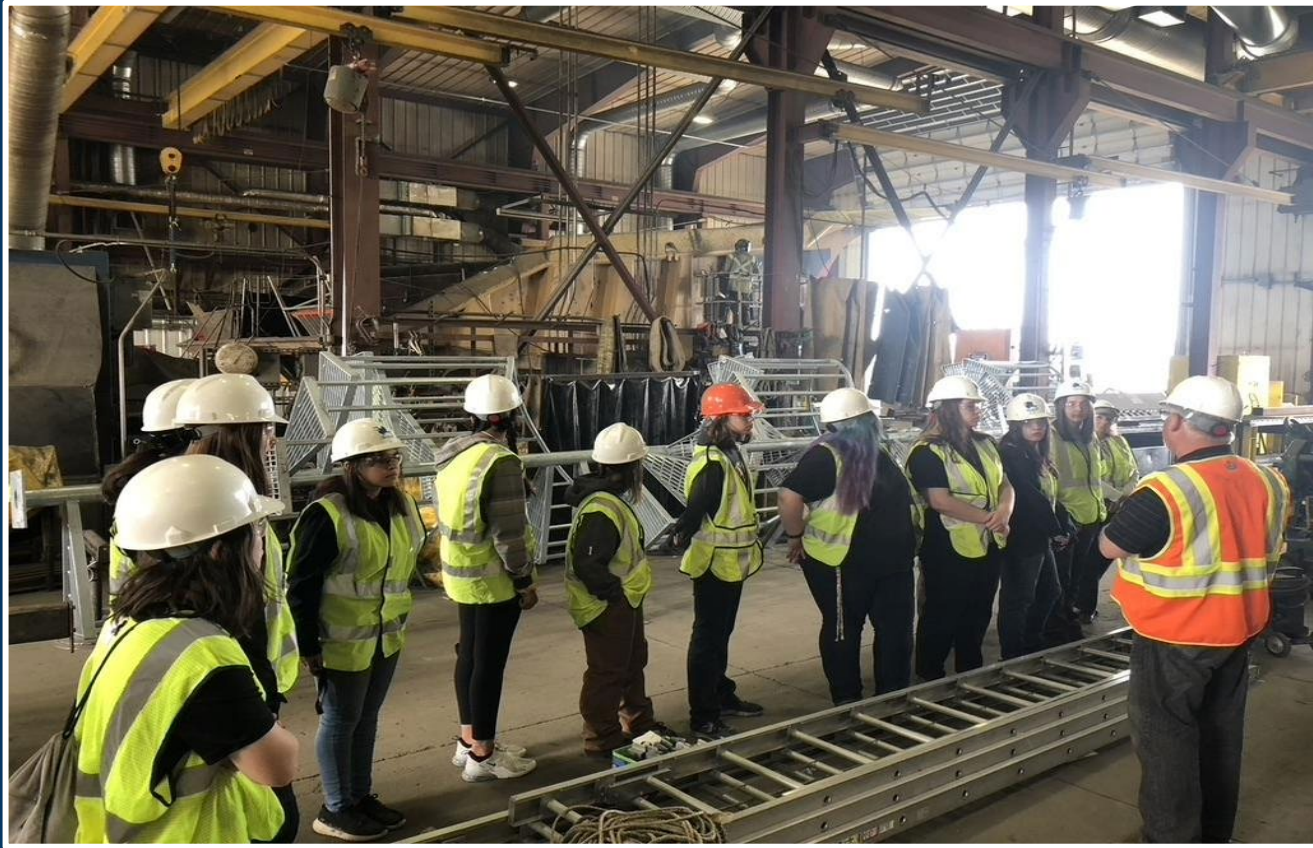
# Finished Bike Rack



# Air Gas Open House/BBQ



# Universal Welding Field Trip



# Welder Certification



#WS D1.1/D1.1M:2015 ANNEX M

## Sample Welder Qualification Form (Single-Process) WELDER, WELDING OPERATOR, OR TACK WELDER PERFORMANCE QUALIFICATION TEST RECORD

Name	N/A <u>MURKOVICH</u>	Test Date	6-30-22	Rev.	
ID Number	N/A	Record No.	N/A	Record No.	N/A
Stamp No.	N/A	Skt. Test No.	N/A		
Company	N/A	TRF# No.	FCAW-1		
Division	N/A	Qualified To	D1.1		

BASE METALS	Specification	Type or Grade	AWS Group No.	Size (NPS)	Schedule	Thickness	Diameter
Base Material	ASTM A36	N/A	1	N/A	N/A	1/2"	N/A
Welder Ig	ASTM A36	N/A	1	N/A	N/A	1/2"	N/A

VARIABLES	Actual Values	RANGE QUALIFIED
Type of Weld Joint	V-Groove Butt	1/8" to 1"
Base Metal	N/A	N/A

	Groove	Fillet	Groove	Fillet
Plate Thickness	1/2"	N/A	1/8" to 1"	N/A
Pipe/Tube Thickness	N/A	N/A	N/A	N/A
Pipe Diameter	N/A	N/A	N/A	N/A

Welding Process		
Type (Manual, Semiautomatic, Mechanical, Automatic)	Semiautomatic-FCAW	N/A
Electrode	WC	N/A
Filler Metal (AWS Spec)	E 20	N/A
AWS Classification	ER71T-1M	N/A
T-Number	F4	N/A
Position	1G	N/A
Groove - Plate & Pipe > 24 in	N/A	N/A
Groove - Pipe < 24 in	N/A	N/A
Fillet - Plate & Pipe > 24 in	N/A	N/A
Fillet - Pipe < 24 in	N/A	N/A
Progression	N/A	N/A
CGM Transfer Mode	Spillover	N/A
Single or Multiple Electrodes	Single	N/A
Gas/Flux Type	75/25 Argon/CO2	N/A

### TEST RESULTS

Date of Test	Acceptance Criteria	Results	Remarks
Face Bend	D1.1	Pass	
Root Bend	D1.1	Pass	

### CERTIFICATION

Test Conducted by	
Laboratory	Hutchison High School
Test Number	N/A
File Number	N/A

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of Clause 4 of AWS D1.1/D1.1M (2020\_) Structural Welding Code—Steel.

Manufacturer or Contractor N/A Authorized by Pat C. Oates

Date: 6-30-22

# Fairbanks Daily News-Miner

The Clear Fire has grown to 5,600 acres leading to the "Go" evacuation recommendation for residents in Kobe Ag, Quota and Anderson subdivisions on Friday afternoon. Only one person appears to have taken advantage of evacuation facilities and spent the night at Tri-Valley School Friday night. That person then

As of Saturday, the three-mile active edge was three miles north of the Kobe Ag, Quota and Anderson subdivisions (which is not the city of Anderson). Access to the areas is at Mile 275.2 Parks Highway. The fire continued to spread south.

FIRE » A2



## FIRED UP



FAIRBANKS NORTH STEAR SCHOOL DISTRICT PHOTOS

Left, student Daisy Massey torches a weld during a welding summer course at Hutchison High School. At right, student Kassie Petersen applies a grinder to a metal weld during class.

## Sparks fly in 'Girls Who Weld' summer class

By Jack Barnwell

Creative sparks have been flying in Hutchison High School's welding lab all June and sizzling with synergy as a group of 11 young women and two volunteer assistants get a condensed exposure to the trade.

The students, dressed in welding aprons and face shields, were wrapping up a team project creating bicycle racks for the pool at the borough's Mary Siah Recreation Center.

The summer program "Girls Who Weld" is one part exploratory course, one part enrollment recruitment, according to Hutchison welding teacher Pete Daley.

Initially dovetailing from a previous career and technical education carpentry course taught last summer, Daley said the idea was inspired by an article he read in the *Welding Journal*, an American Welding Society trade magazine.

"The article said there are only 5% women in the welding industry," Daley said. "I

thought 'wow' because the industry is trying to recruit 78,500-plus welders a year, and that [5%] is an abysmal participation rate by females."

A veteran welding teacher and certified welding inspector, Daley has taught at Hutchison for 12 years and almost a decade in rural schools. He teaches at least 30 students a year, the majority of them boys and a handful of girls.

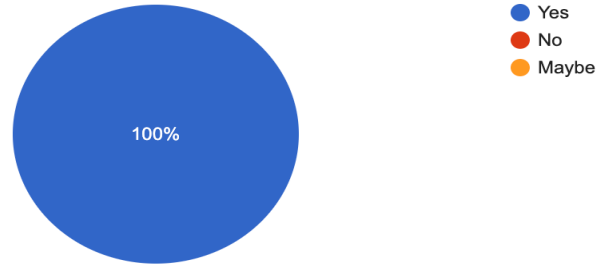
WELD » A6

# Survey Results

Would you recommend this class to other girls?

 Copy

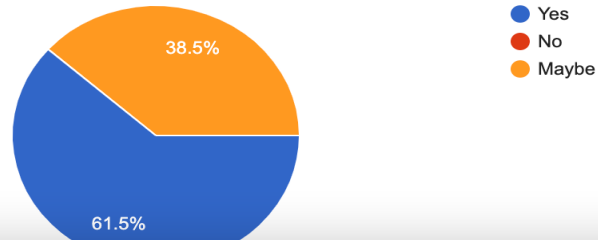
13 responses



Are you planning on taking another welding class in high school?

 Copy

13 responses



# Certificate Of Completion/CTE Elective Credit



## *CERTIFICATE* of completion

*This certificate is proudly awarded to*

*Daisy Massey*

*For successfully completing the  
Girls Who Weld class on June 30, 2022*



*Peter C. Daley*  
Peter Daley, Instructor

# Happy Smiles



Pete Daley's Girls in Welding Program - Fairbanks, AK

<https://youtu.be/PUFifNG7x1Q>