

COLLEGE OF

MARIN

**MACH/WELD Advisory
Committee Meeting**

November 4, 2022

AGENDA





Hello!

Please share your name, role, organization.

College Updates, Trends, and Outcomes

ALINA VARONA, DEAN, CAREER EDUCATION AND WORKFORCE DEVELOPMENT

Career Education: Programs

cte.marin.edu

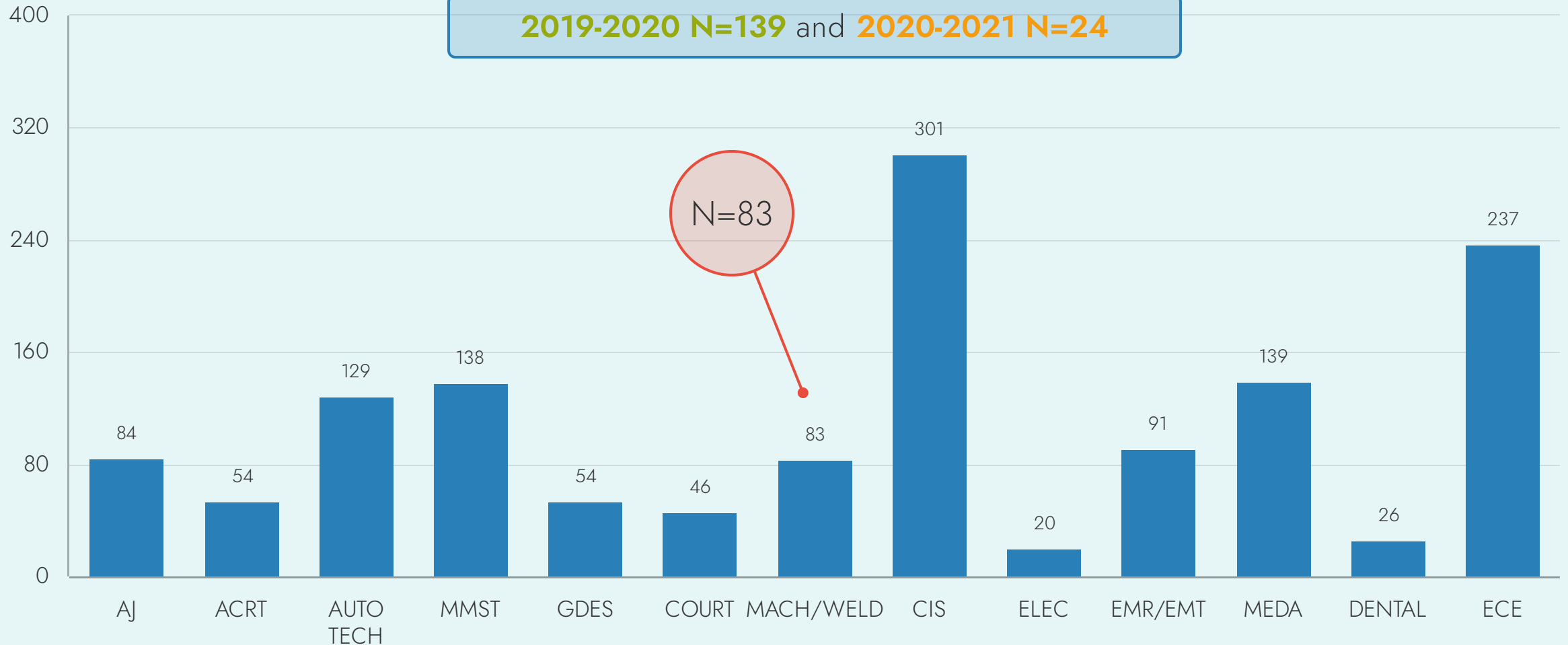


- Administration of Justice
- **Auto & Industrial**
Auto Collision Repair; Auto Technology; Electronics; **Machine & Metals Technology, Welding**
- Computers & Multimedia
Computer Information Systems; Graphic Design; 3D, Video, Game Dev; Web Design and Development; MS Office Specialist Certification
- Court Reporting
- Health Sciences
Dental Assisting; Emergency Medical Technician Training; Medical Assisting, Public Safety Degree
- Organic Farming
- Education to Career (E2C)
Adult Education Construction Program
- Summer Career Academies
High School Academies
- Short-Term Career Training Programs (12 Weeks)
Business Start-Up; Small Business Management: online selling, accounting, office applications, social media marketing

Enrollments by Program (unduplicated)

2021-2022 Academic Year

2019-2020 N=139 and 2020-2021 N=24

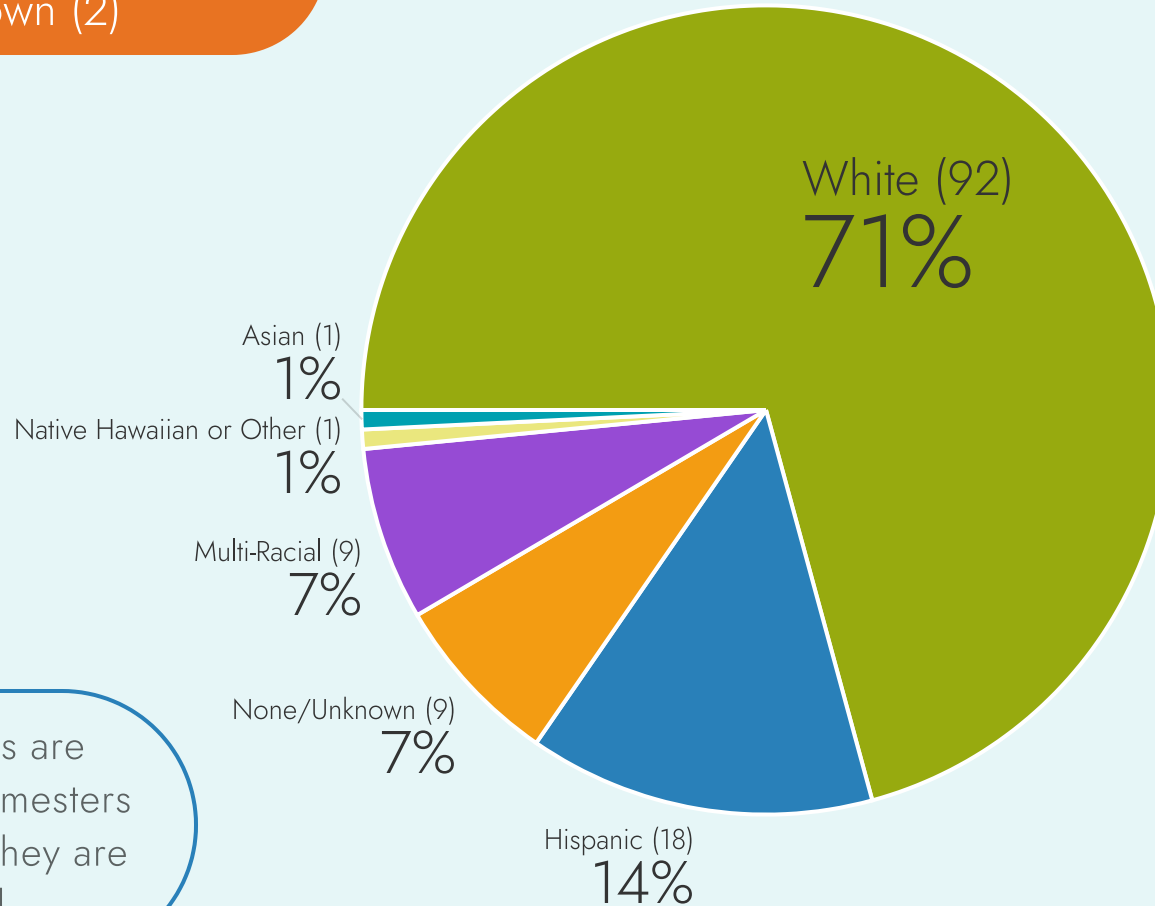


1,402 Total Career Ed. Student Count for 2021-2022

Student Demographics

MACH/WELD Program 2021 - 2022

88.5% Male (115)
10% Female (13)
1.5% Unknown (2)



The program numbers are aggregated over two semesters for MACH and WELD; they are not unduplicated.

COLLEGE OF MARIN CREDIT STUDENT CHARACTERISTICS

Gender: Male 39% Female 59%;

Median Age: 24

Race/Ethnicity:

Asian: 538 (8%)

Black/African American: 219 (3%)

Hispanic: 2,170 (31%)

Multi-racial: 445 (6%)

Native American: 15 (0.2%)

Native Hawaiian/Pacific Islander: 13 (0.2%)

White: 3,377 (49%)

Program Outcomes

MACH/WELD 2021 - 2022

PERSISTENCE

Classes were closed in Spring 2020 due to COVID-19

Persistence -

First Time Students
Fall 2021

Program: **55.6%** average

College: **73%** average

The program registers a much lower persistence rate than the College's rate

RETENTION

Course **Retention** by
Gender (%)
Spring 2022

- Women **80%** in program
- Men **74.3%** in program

Program Course Retention Overall:

Fall 2021 - Spring 2022

80%

Slightly lower than the
College average at **83.4%**

SUCCESS

Program Completions -
Awards in Machine and Metals
Technology

in the Last 3 Academic Years

- **AS Degrees: 1**
- **Certificates: 2**

Successful Course Completion -

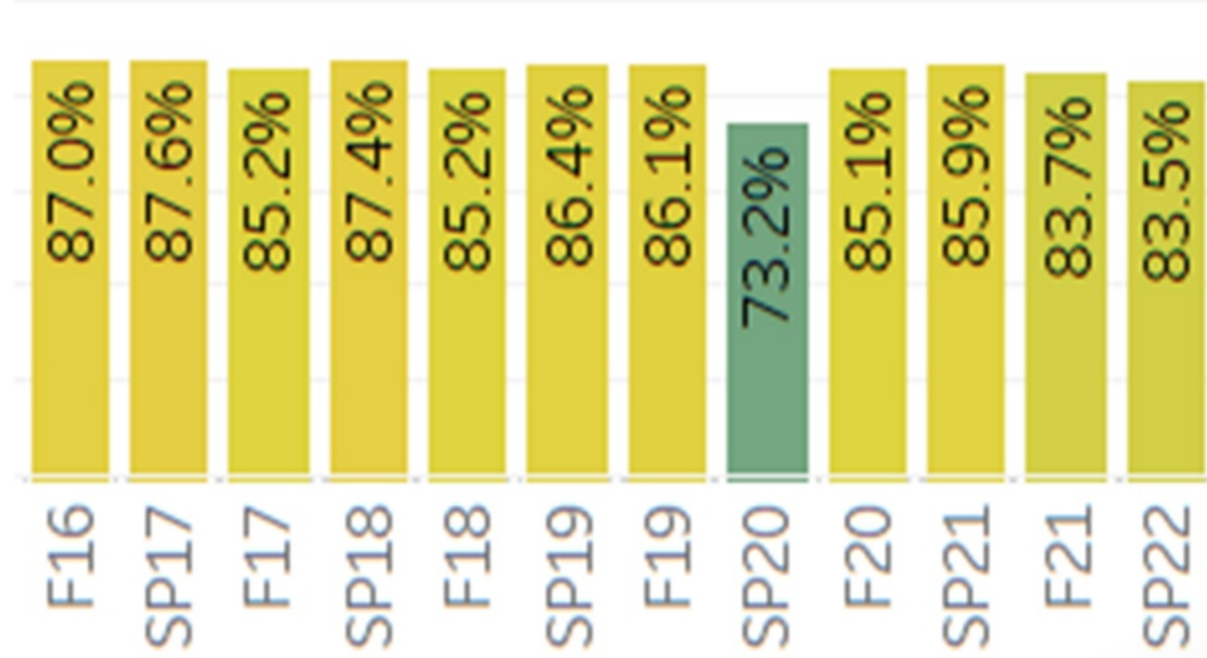
Fall 2021 - Spring 2022

82.5%

Higher than the College's rate at
76.3%

Student Success Fall 2016-Spring 2022

All Credit Courses



Student Success Fall 2016-Spring 2022

by Student Type

	First time	New transfer	Returning	Continuing	CCP
F16	87.4%	88.0%	89.5%	88.0%	95.2%
SP17	81.5%	87.6%	83.4%	89.0%	92.7%
F17	82.7%	86.8%	84.9%	87.4%	95.1%
SP18	77.4%	86.5%	85.1%	89.0%	93.5%
F18	82.2%	84.5%	87.2%	87.8%	91.8%
SP19	82.8%	85.9%	85.7%	88.4%	92.1%
F19	83.6%	86.1%	81.6%	88.4%	91.7%
SP20	67.4%	74.8%	71.7%	76.3%	81.0%
F20	82.1%	88.0%	84.1%	86.2%	92.9%
SP21	80.4%	82.2%	84.2%	87.9%	90.8%
F21	82.0%	84.3%	86.7%	86.4%	91.7%
SP22	78.0%	78.3%	76.1%	85.0%	90.6%

Thoughts and
Reactions?



Labor Market Information

Heather Rahman, Program Coordinator Career Education

Regional Labor Market Information

Sources: Centers of Excellence Demand Tables
and O*Net Online

Regional Counties:
Marin, Napa,
Sonoma, Solano, San
Francisco and San
Mateo, Contra Costa,
Alameda

“Welders starting wage
are typically higher with
benefits.”

Occupation	Average Annual Earnings	Annual Job Openings projected through 2028
CNC Machine Tool Operators	\$49,710 (23.90/hour)	175
CNC Machine Tool Programmers	\$80,020 (38.47/hour)	81
Machinists	\$58,570 (28.16/hour)	838
Welders, Cutters, Solderers and Brazers	\$58,620 (28.18/hour)	565

“Top-end
employees will
make significantly
higher wages, even
double.”

<http://coeccc.net/>
<https://www.onetonline.org/>

Hiring and Staffing Needs

Grant Kerr, MACH Instructor

Padraig McGee, WELD Instructor

PRIORITIES AND CURRENT LANDSCAPE

Advisory Member Share Outs & Discussion



Staffing and Recruiting

- Where do you find your candidates?
- **What wages can be expected for entry level positions?**



Training & Professional Development

- What are the skills required? For which levels?
- Any emerging technology skills that should be considered?



Community Partnership & Impacts

- How should we best prepare our students to be qualified and competitive?



Needs and Priorities

- What are your current priorities and needs for hiring?



Other Key Items?

- What should we be aware of to support our future students?
- Potential technology, training, or emerging sectors?

Machine & Metals Technology

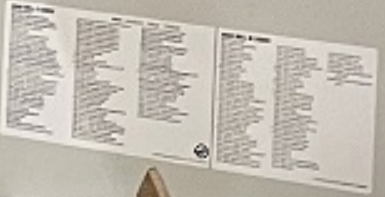
Grant Kerr, MACH Instructor



TM 2P



Control panel for the TM 2P machine, featuring a large color LCD screen displaying a software interface with various data fields and graphs. Below the screen is a numeric keypad and several function buttons. The panel includes a red emergency stop button, a yellow stop button, and a green start button. A clipboard with a document is attached to the right side of the panel.



New Equipment *Implementation Topics:*

- * Tooling
- * Projects
- * CAM software training
- * Maintenance sources for older equipment

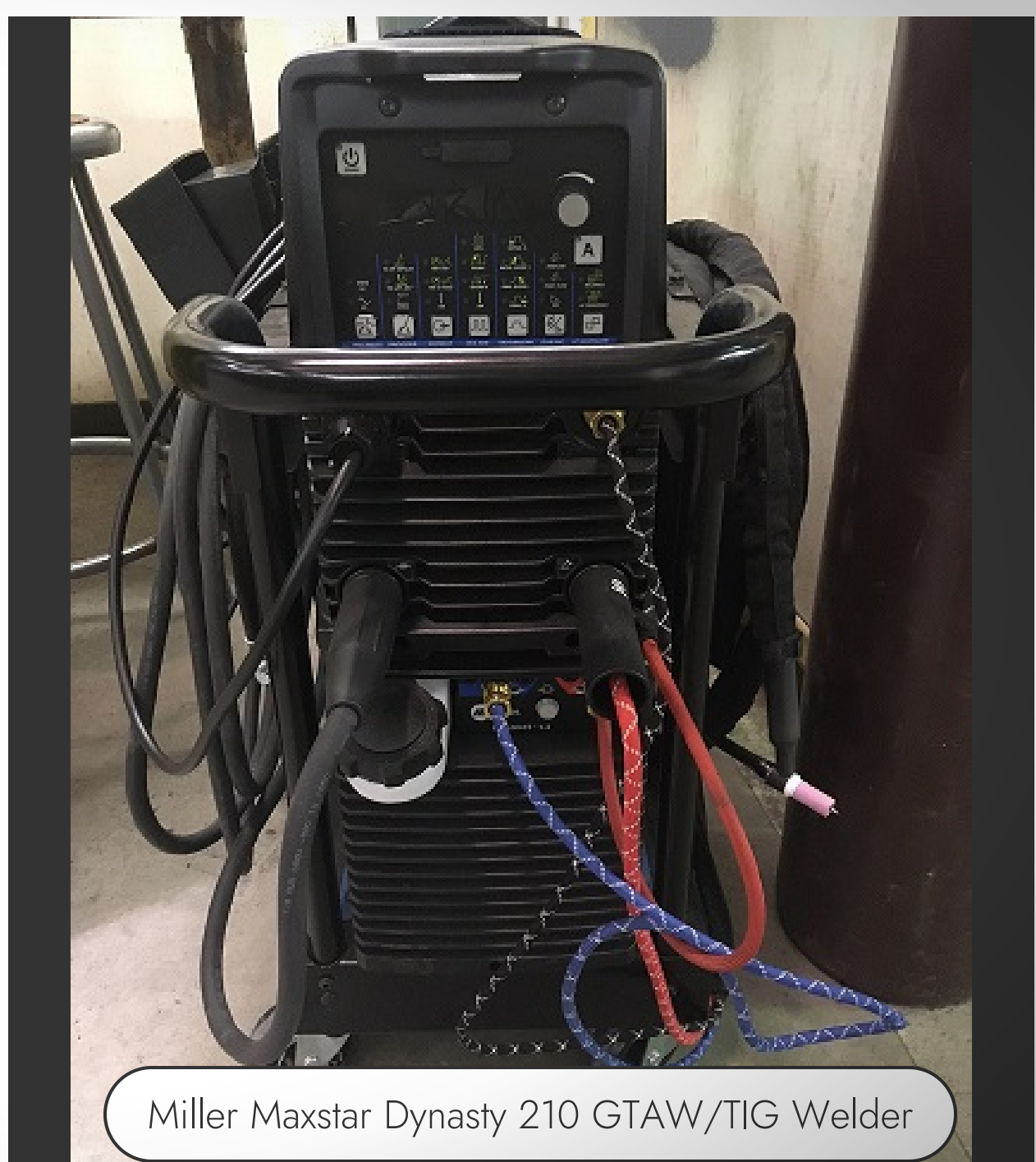


Welding

Padraig McGee, WELD Instructor



Miller Dynasty 350 GTAW/TIG Welder



Miller Maxstar Dynasty 210 GTAW/TIG Welder



Millermatic 140 Auto-set

Program Topics of Discussion

- Welding Equipment and Supplies
- Welding Skills Certificates (10 units)
- Certificate of Achievement, Welding (17 units)

Certificate of Achievement, Welding Technician

The Welding Technician Certificate of Achievement prepares the student for pre-apprentice positions in the welding industry. Required courses can be applied toward the AS degree.
Certificate Requirements

- Weld 100 - Career Math and Precision Measurement - 4 Units
- Weld 101 - Introduction to Welding - 4 Units
- Weld 102 - Intermediate MIG Welding - 2 Units
- Weld 103 - Advanced MIG Welding - 2 Units
- Weld 104 - Intermediate TIG Welding - 2 Units
- Weld 105 - Advanced TIG welding - 2 Units
- Weld 106 - SMAW Welding - 2 Units
- Weld 107 - OFW and Welding Fabrication - 2 Units

Total Units: **20 Units**

Skills Certificate in **TIG** Welding

- Weld 101 - Introduction to Welding - 4 Units
- Weld 104 - Intermediate TIG - 2 Units
- Weld 105 - Advanced TIG - 2 Units
- Weld 106 - SMAW Welding or Weld 107 - OFW and Welding Fabrication - 2 Units

Total Units: **10 Units**

Skills Certificate in **MIG** Welding

- Weld 101 - Introduction to Welding - 4 Units
- Weld 102 - Intermediate MIG Welding - 2 Units
- Weld 103 - Advanced MIG Welding - 2 Units
- Weld 106 - SMAW Welding or Weld 107 OFW and Welding Fabrication - 2 Units

Total Units: **10 Units**

College of Marin Welding Certificate

Last meeting: "Companies are willing to sponsor in [a] learn-as-you-go instruction, and companies will hire especially if the individual has a welding certification"

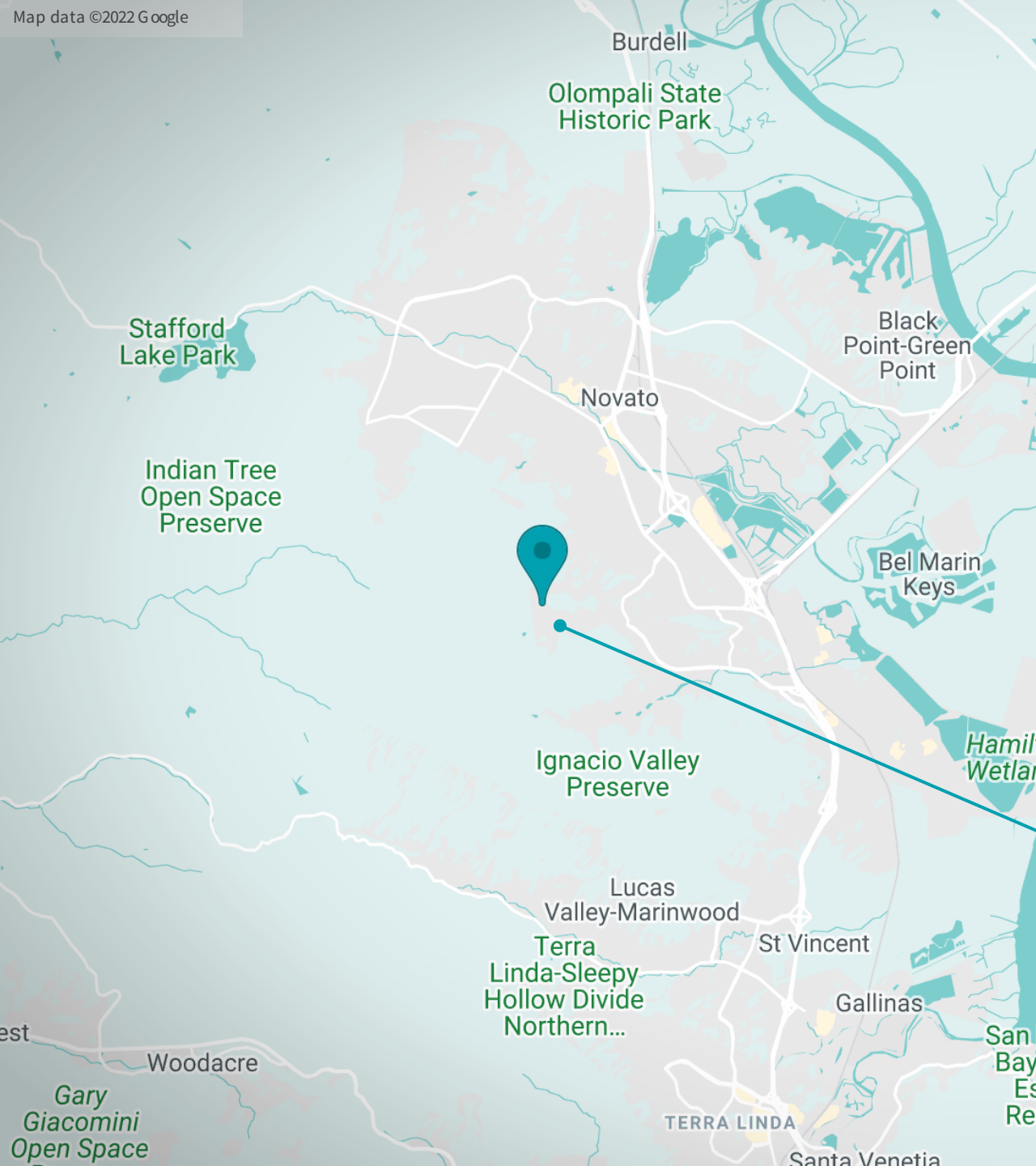
By show of hands:

1. Should COM offer a Certificate of Achievement in Welding?
2. Should COM offer a TIG Skills Certificate for Welding?
3. Should COM offer a MIG Skills Certificate for Welding?
4. Should COM offer Welding as a pre-Apprenticeship program?



Summary/Wrap-up
Thoughts? **Questions?**
NEXT STEPS





Thank You!

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College of Marin, Indian Valley Campus