

BASIC PROGRAM INFORMATION

Program Review is a self-study of your discipline. It is about documenting the plans you have for improving student success in your program and sharing that information with the college community. Through the review of and reflection on key program elements, program review and planning identifies program strengths as well as strategies necessary to improve the academic discipline, program, or service to support student success. With that in mind, please answer the following questions:

Discipline Name: Welding Technology

Department Name: Trades and Industry

Division Name: CTEE

Please list all participants in this Program Review :

Name	Position
Sergio Hernadez	Department Chair Trades and Industry Professor
Dennis Lutz	Professor

Number of Full Time Faculty: 0 **Number of Part Time Faculty:** 0

Please list the Classified positions (and their FTE) that support this discipline:

Shared Dept. ADA Nine disciplines in our dept. with large technical labs. Total FTES for the T&I Division is approx. 300

What additional hourly staff support this discipline and/or department:

Most labs have hourly student helpers to insure safety and to prepare steel coupons for students to practice on.

Discipline mission statement: [Link to "How to Build a Mission Statement"](#)

The Welding program focuses on fostering a learning environment for the preparation of men and women who desire to enter the construction trade industry as a certified welder. The program provides students with the knowledge and skills necessary to gain employment as a certified welder.

List any new degrees and certificates offered within this discipline since your last comprehensive review:

No New certificates

Discipline Level Data: <https://sharepoint2.palomar.edu/sites/IRPA/SitePages/PRP%20Summary%20Source.aspx>

SECTION 1: PROGRAM REFLECTION

1A. Program Analysis: Reflect upon and provide an analysis of your summary data.

The Welding Department has moved into smaller facilities and has a smaller lab and a single lecture room. Welding is always over 100% capacity. Our program is currently 700 students and we have 670 seats. Despite the new Welding Laboratory having 1/3rd the capacity of the old lab, the Welding Department has continued to grow. We are currently at 104% Census load due to the smaller lab size. The Welding Department needs to hire 2 Full-time Faculty. There is no recruitment is currently underway. Last year our second welding instructor was number 7 on the list. However, when the school announced we were going to hire 8 new full time instructors welding was somehow omitted from the number 7 spot on the list.

Our Welding Laboratory is limited to 22 Students, requiring we operate only one class at a time. Our numbers would increase with another lab and lecture room.

Through student advisement our certificates of achievement, certificates of proficiency, and A.S. degrees continue to slowly increase.

Welding will continue to struggle with program completion and degrees due to the fact that our students can take as little as one class and have enough knowledge and skills to enter the workforce. The welding industry recognizes welding certifications and not necessarily degrees. The Welding Department issued 21 Welding Certification Licenses during an intersession course in May 2015 and approximately 25 in May of 2016 for the same class. With these certifications, students can weld anywhere in the world. To many students; welding certifications are more important than completing their degree.

1B. Standards: ACCJC requires that colleges establish institutional and program level standards in the area of course success rates. These standards represent the lowest success rate (% A, B, C, or Credit) deemed acceptable by the College. In other words, if you were to notice a drop below the rate, you would seek further information to examine why the drop occurred and strategies to address the rate.

Discipline Level Course Success Rate:

- A. The College's institutional standard for course success rate is **70%**.
- B. Review your discipline's course success rates over the past five years.
- C. Identify the minimum acceptable course success rate for your discipline. When setting this rate, consider the level of curriculum (e.g., basic skills, AA, Transfer) and other factors that influence success rates within your area. If you set your discipline standard below the College's standard, please explain why.

Standard for Discipline Course Success Rate: 70

Why?

Welding is currently at 84% success rate. It was at 92% in 2010, but has consistently dropped over the last years due to no full time faculty and reduced facilities, lab size and lecture room.

1C. Program Update: Describe your proudest moments or achievements related to student success and outcome.

Welding has some new machinery to teach welding students fabrication. We have the following machines that is being incorporated into the curriculum:

1. State of the art welding machines
2. CNC Plasma cutter
3. CNC Water-Jet
4. CNC Press Brake

1D. Program Improvement: What areas or activities are you working on this year to improve your program? Please respond to new data as well as feedback from last year's program review.

Even with the reduced facilities our retention rate has an average of 95%

1E. Unanticipated Factors: Have there been any unanticipated factors that have affected the progress of your previous plan?

The last three years we have lost 3 full full time faculty in welding due to unforeseen circumstances and events.

1F. SLOACs: Describe your course and program SLO activities this past year. How have you used the results of your assessments to improve your courses and programs? [Refer to the SLO/PRP report – https://outcomes.palomar.edu:8443/tracdat/](https://outcomes.palomar.edu:8443/tracdat/)

Our Program and course Student Learning Outcomes ensure that our students will be adequately prepare to function as safe,

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efficient, and productive workforce. Our safety program stems directly with safety programs within industry. Our SLO's that gather data to evaluate skills based competencies are directly related to an industry Quality Control program. This format provides the students with the criteria and expectations of an industry based solely on quality control.

SECTION 2: PROGRAM GOALS

2A. Progress on Previous Year's Goals: Please list discipline goals from the previous year's reviews and provide an update by checking the appropriate status box .

Goal	Completed	Ongoing	No Longer a Goal
Add another welding laboratory. The welding department needs an	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Modify the welding booths in the laboratory.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Become an accredited AWS SENSE facility	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Become an American Welding Society test facility	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Increase the Welding Departments' use of technology and prepare f	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

2B. New Discipline Goals: Please list all discipline goals for this three-year planning cycle (including those continued from previous planning cycle):

GOAL #1	
Program or discipline goal	Hire two full time faculty in welding
Strategies for implementation	Continue to remind administration of the need to support welding program. This is a dangerous lab and needs the attention of two full time instructors
Timeline for Implementation	Fall 2017
Outcome(s) expected (qualitative/quantitative)	Growth of program and supporting the needs of the students and the industry
GOAL #2	
Program or discipline goal	Add another welding laboratory. The welding department needs another laboratory to accommodate the demand of students. Our class sizes are limited to 22 students. Having another laboratory and an additional lecture room would allow the program to offer more sections, increasing student completion and retention. The currently laboratory requires the program runs classes back to back from morning to night. The students are not able to get the classes they need in a time slot that works for them.
Strategies for implementation	Remodel use Strong Workforce funding
Timeline for Implementation	Fall 2018
Outcome(s) expected (qualitative/quantitative)	Welding classes are filled and have wait list of over 10 students in each class during the first 3 days of registration. We will be able to service/train more students to enter the high demand work force in welding and manufacturing.
GOAL #3	
Program or discipline goal	Become an accredited AWS SENSE and an American Welding Society test facility.
Strategies for implementation	Hiring two full time faculty will help facilitate these two important goals
Timeline for Implementation	Fall 2018
Outcome(s) expected (qualitative/quantitative)	Students will be trained and certified ready to enter the work force.

**Department Chair/
Designee Signature:** _____

Date: _____

Division Dean Signature: _____

Date: _____

Vice President Signature: _____

Date: _____