

Industrial Arts Department
AUP for Academic Year 2025-2026
October 2024

Describe Department/Unit

Connection to College Mission

It is the mission of the Industrial Arts Department to provide courses and instruction that will meet the academic, vocational, and general education needs of our students, college, and communities. We provide instruction leading to Associate degrees and certificates in multiple occupational areas including: Welding, Industrial Process Technician, and Machine Tools, along with Forklift operator certifications. The programs in the Industrial Arts Department provide life-long learning and support to students in their academic, technical, and vocational pursuits. The goal of our programs is to foster in students a lifelong desire to learn, a passion to excel, and a commitment to contribute actively to their local community. Students graduating from the department's programs will be prepared to enter the job market in entry level positions with a variety of focus including but not limited to: construction, mining, manufacturing, drafting, welding, fabrication and machine shops, electronics, railroads, automotive, as well as the aircraft, marine, aerospace, and renewable energy industries.

Report on Improvements Made and Gaps Identified in the Prior Year

Student Equity

Female enrollments are up 3% from last year.

The African American success rate for the Industrial Arts department is substantially lower than that of the college. 48% compared to 67%.

The success rate at the East Kern Campus is significantly lower than the overall campus success rates. 83% compared to 94%

Outcomes Assessment: Loop-Back Improvements Made

Outcomes Assessment: Results of Last Year's Assessments

INDE C060

Target Met?

No

PTEC 101X

Target Met?

Yes

PTEC C110X

Target Met?

Yes

WELD C101

Target Met?

Yes

WELD C102

Target Met?

Yes

Outcomes Assessment: Missed Targets

INDE C060

Type:

SLO

Target Missed/Gap Detected:

Target 75%. Result 73%

Type of Gap:

Need to alter/refine course content.

Analysis and Plan for Improvement:

The department will spend more time going over the proper use of measuring instruments.

Anticipated Semester for Implementing Planned Improvements:

Spring 2025

Anticipated Semester of Next Assessment:

Spring 2025

Outcomes Assessment: Schedule of This Year's Assessments

WELD C200

WELD C203

WELD C204

WELD C210

INDE C060

Program Review

Welding Technology

Year of Last Program Review:

2018

Actions Taken in the Prior Year to Address Strategies:

Strategies Still to be Addressed:

Last Year's Initiatives

Begin offering the Process Technician Certificate

The department was successful in offering this program for the first time. Coso Geothermal has expressed great interest in this program.

Establish dual enrollment welding with Tehachapi prison

Develop truck driving program

The curriculum has been completed, adjuncts have been hired.

Begin offering a forklift operating course

Faculty have completed the trainers course to begin offering this certification.

Reminder of Initiatives for the Current Year

Reminder of Initiatives for the Current Year

Begin offering fluxcore D1.1 structural tests

Become certified to offer an OSHA 10 course

Begin offering a forklift certification course

Plan Initiatives for Next Year

Initiatives for Next Academic Year

Become certified to offer an OSHA 10 course

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

The first of two courses to become a certified trainer will be taken Fall 2024. The second course will be taken in Spring of 2025.

Early Observational Data, or "Lead" Measure(s):

Register and successfully complete courses.

Does the department request help developing these instruments?

No

Institutional Performance Data, or "Lag" Measure(s):

Completing courses and becoming licensed to begin offering this certification to students. This has been requested by the department's advisory committee.

Person Responsible:

Department chair/Faculty

Unit gap or institutional goals addressed:

It addresses a 2- or 5- year program review strategy

Begin offering courses in the truck driving program

Is this part of a multiyear initiative?

No

Specific Action Steps to be Taken:

Adjuncts have been hired. The department is meeting with the dean and the adjuncts to come up with the courses schedules.

Early Observational Data, or "Lead" Measure(s):

Scheduling courses.

Does the department request help developing these instruments?

Yes

Institutional Performance Data, or "Lag" Measure(s):

Courses being offered.

Person Responsible:

Department chair/Faculty

Unit gap or institutional goals addressed:

It addresses a 2- or 5- year program review strategy

Open the welding lab for the community to come to an open house

Is this part of a multiyear initiative?

No

Specific Action Steps to be Taken:

We will work within the department to find a date that we can hold this open house. We will work with the marketing department to print out flyers and place ads throughout social media and other places.

Early Observational Data, or "Lead" Measure(s):

Scheduling a date and time.

Printing flyers and places them throughout the community.

Does the department request help developing these instruments?

Yes

Institutional Performance Data, or "Lag" Measure(s):

Holding the event

Person Responsible:

Department chair/Faculty

Unit gap or institutional goals addressed:

It addresses a Strategic Plan goal or objective (reminder to the right)

Evaluate Resource Needs

Facilities

We would like plastic outlet covers placed over the outlets inside the welding booths in room 147 to keep grinding sparks out of the outlets.

Remove remaining auto lift and solar house in the backyard of the welding lab. The department would like to look into an outside welding area to simulate work in the field.

Remove exhaust unit from the North wall of WW147. This will make room for new equipment.

Install 220V receptacles near demo stations in WW147 and in room WW198 on West wall.

Install curtain around virtual welders.

Repaint classrooms and office.

Install some type of split unit AC/Heater in office. Often times its 85-90 degrees in the warm months or freezing cold in the winter months in the office. We have tried fans and portable coolers to help cool down when it's hot out, these portable swamp coolers are extremely loud and hard to get any work done when they are running in the background. Our office is probably the only office on the campus without AC.

Information Technology

Clean up wiring on East wall of office. This has been a major eye sore for several years.

Marketing

Create new brochures for new Process Technician program and new certifications.

Take pictures or video to embed on the Cerro Coso website.

New ads at the movie theater and other platforms.

Professional Development

Members of the department are taking the first of two courses needed to begin offering an OSHA 10 certification in the Fall of 2024. We would like to take the second class in the Spring of 2025.

Faculty have began training to become certified welding inspectors through the American Welding Society and would like to continue with that training.

Department members would like to attend trade shows in order to stay up to date with new equipment and techniques.

Other Needs

2 Lincoln Electric portable plasma cutters

Triangle Engineering weld specimen backstrap remover

Nondestructive weld test equipment

Training equipment and supplies to support the new Process Technician program

Staffing Requests

1000 Category - Certificated Positions

INDA

Location:

Justification:

The department has no requests

2000 Category - Classified Staff

INDA

Location:

Salary Grade:

Number of Months:

Number of Hours per Week:

Salary Amount:

Justification:

The department has no requests

AUP Budget Worksheet for Industrial Arts - FY25

Fund	Org Description	Account Description	Program Title	Activity	Location	2024		2025		2026	Notes	Increase?	In planning document	If requesting increase of %5 or more		
						Adopted Budget	Actual Expenses	Adopted Budget		Request				Data?	Relevance?	Operational Efficiency?
GU001	Industrial Arts Department	Non-Inst Supplies & Materials	Welding Technology		CI	\$ 300.00	\$ -	\$ 300.00		\$ 300.00	This money is requested in the event that there is an emergency break down of a piece of equipment and repairs are needed. The increase is to account for increases in prices as a whole.	no	no			
GU001	Industrial Arts Department	Maint & Repairs Supplies	Welding Technology		CI	\$ 1,000.00	\$ -	\$ 1,000.00		\$ 1,000.00	No increase is being requested at this time	yes	AUP			
LP001	Industrial Arts Department	Inst Supplies & Materials	Welding Technology		CI	\$ 45,000.00	\$ 38,890.71	\$ 45,000.00		\$ 45,000.00	Tehachapi welding supplies are generally covered through Strong Workforce funds. This is being requested in the event Strong can not cover some of the supplies.	no	no			
LP001	Industrial Arts Department	Inst Supplies & Materials	Welding Technology		CT					\$ 10,000.00		yes	no			
						\$ -	\$ 454.71									

Resource Requests				description/explanation	In planning document	Data?	Relevance?	Operational Efficiency?
Type of request	1 time or ongoing?	Requested amount						
Facilities	1 time	\$ 2,000.00		Plastic outlet covers are being requested to be installed in all welding booths to protect from grinding sparks coming in contact with outlets	AUP	There is a risk of damage to equipment from grinding sparks getting into the outlets inside of the welding booths. When students are doing any type of grinding of metal in their welding booths, often times metal sparks are directed towards the outlets which can cause the sparks to get inside the outlets and cause an electrical fire.	This is a safety concern along with a productivity issue. If something were to happen and we lost power to a welding booth due to sparks entering an outlet, welding in that booth will have to stop which will in turn effect student performance.	This addition of outlet covers will help keep wear and tear down on equipment along with prevent any electrical safety issues and keep students being productive during lab hours.
Facilities	1 time	unknown		We would like the remaining auto lift and solar house removed from the backyard of the welding lab	AUP	The auto lift and solar house are taking up space that the department could be utilizing to add training to the department	The department can utilize this space for further training such as forklift behind the wheel training and outside field welding simulations	The removal of these items will give the department more room for training and overall student success.
Facilities	1 time	unknown		Remove exhaust unit from WW147	AUP	This obsolete piece of equipment is taking up room that can be used for new equipment.	The department is aslways looking at new equipment to stay up to date with technology advancements. Space is limited in the welding lab	This will allow the department to purchase new welding equipment
Facilities	1 time	unknown		Install new 220v receptacles near demo stations	AUP	We currently have to use a 220v extension cord to power the deom welders	OSHA does not allow an extension cord to be used for long term use	Stay in compliance with OSHA guidelines
Facilities	1 time	unknown		Install curtain around virtual welders	AUP	We need some time of curtain installed around virtual welders	The virtual welders are expensive pieces of equipment and we would like to keep them contained from any type of damage and exposure	This will allow longer longevity of the equipment and keep things neat and tidy
Facilities	1 time	unknown		repaint classrooms and office	AUP	The classrooms and offices paint is old and out dated	We would like the classrooms and office repainted to keep up appearances and refresh the facility	This refresh will make the area more appealing to students
Facilities	1 time	unknown		Install split unit AC system in the office	AUP	The Industrial Arts area is the only department on campus without AC. The office is often times either too hot or too cold to perform work in.	Often times the office is freezing cold or too hot to perform everyday duties in. We have tried putting a portable swamp cooler in the office , they are way too loud to be able to concentrate. Often times the office is over 80 degrees in warm days and low 60s on cold days. The cooling system does not function properly unless the weather is perfect outside.	Comfort makes working conditions a lot more pleasant. It can be hard to focus and complete tasks when you are either dripping sweat or shivering cold.