Annual Integrated Planning

Industrial Arts for 2026-2027

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

Actions Taken

The department has seen substantial growth in 2024-2025. Enrollments as a whole are 321 compared to the previous year of 241. A good portion of this growth comes from the Welding program in Tehachapi. We have been able to offer a few extra courses at the Tehachapi campus.

Overall completion is 96% and success rates are 88%. The completion and success rates are both up by 5% compared to last year.

Gaps Identified

The African American completion rate is up 26% compared to last year. The success rate is lower compared to the college at only 60%, however the African American population is up from the previous year by 12%.

The department is under represented in the female and Hispanic population.

The success rate in Tehachapi is 6% less than the Ridgecrest population.

Outcomes Assessment

Loop-Back Improvements Made

None

Schedule of Assessments

AERO C101X Aircraft Mechanic Technician General I (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C102X Aircraft Mechanic Technician General II (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C103X Aircraft Mechanic Technician Airframe I (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C104X Aircraft Mechanic Technician Airframe II (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C105X Aircraft Mechanic Technician Airframe III (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C106X Aircraft Mechanic Technician Airframe IV (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C107X Aircraft Mechanic Technician Powerplant I (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C108X Aircraft Mechanic Technician Powerplant II (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C109X Aircraft Maintenance Technician Powerplant III (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C110X Aircraft Maintenance Technician Powerplant IV (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C111X Physics for Aviation (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C112X Introduction to Avionics (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

AERO C113X Introduction to Aircraft Structures, Blueprints, and Manufacturing Documents (Effective Fall 2024)
Not Due to Be Assessed This Year or Last Year

DRFT C108 Reading Technical Drawings (Effective Spring 2022)
Will Assess This Year

HEAV C802 Forklift Certification (Effective Fall 2024)
Will Assess This Year

INDE C060 Mathematical Applications for Trades (Effective Summer 2021)
Assessed Last Year

MCTL C107 Tool and Equipment Operation (Effective Spring 2022)
Will Assess This Year

PTEC C101X Introduction to Process Technology (Effective Fall 2021)
Assessed Last Year

PTEC C110X Industrial Safety, Health, and Environment (Effective Fall 2021)
Assessed Last Year

WELD C101 Oxyacetylene Welding (Effective Fall 2024)
Will Assess This Year

WELD C102 Shielded Metal Arc Welding (Effective Fall 2024)
Will Assess This Year

WELD C200 Gas Metal Arc Welding (Effective Fall 2024)
Will Assess This Year

WELD C203 Gas Tungsten Arc Welding (Effective Fall 2024)
Will Assess This Year

WELD C204 Pipe Welding (Effective Spring 2025)
Will Assess This Year

WELD C210 Welding Fabrication (Effective Spring 2025)
Will Assess This Year

Outcomes Assessment: Results of Last Year's Assessments

SLO for course INDE C060 Mathematical Applications for Trades (Effective Summer 2021) — None Demonstrate proper use of measuring instruments such as micrometers and calipers to determine the precision and accuracy of measurements.
Passed

SLO for course INDE C060 Mathematical Applications for Trades (Effective Summer 2021) — None Solve trade-related word problems using algebra, geometry, and trigonometry.
Passed

SLO for course INDE C060 Mathematical Applications for Trades (Effective Summer 2021) — None Use a scientific calculator to calculate ratios, solve proportions, and solve problems involving proportions.
Passed

SLO for course PTEC C101X Introduction to Process Technology (Effective Fall 2021) — None Apply industry concepts and principles to draw conclusions about the roles and responsibilities of a process technician in an industry setting.
Passed

SLO for course PTEC C101X Introduction to Process Technology (Effective Fall 2021) — None Explain the applications and usage of the various equipment found in the processing industry.
Passed

SLO for course PTEC C101X Introduction to Process Technology (Effective Fall 2021) — None Identify and summarize the important aspects of regulatory agencies in the industry.

Passed

SLO for course PTEC C110X Industrial Safety, Health, and Environment (Effective Fall 2021) — None Apply important industry concepts and principles to draw conclusions about the roles and responsibilities of a process technician in an environmental setting.
Passed

SLO for course PTEC C110X Industrial Safety, Health, and Environment (Effective Fall 2021) — None Identify and analyze regulatory agencies within the industries including their roles and how they affect the environment.
Passed

SLO for course PTEC C110X Industrial Safety, Health, and Environment (Effective Fall 2021) — None Identify and understand process system equipment hazards and their characteristics within the industry.
Passed

Outcomes Assessment: Missed Targets

Program Review

Name: Industrial Technology

Year of Last Program Review

2024

Actions Taken in the Prior Year to Address Strategies

HEAV C802 has been offered on a few separate occasions offering students an industry recognized forklift license.

Strategies Still to be Addressed

The department members are working to become Certified Welding Inspectors (CWI). This is a very lengthy and rigorous process.

Change the name of the department from Industrial Arts to Industrial Technology. There has been some confusion with students that we offer artistic classes. We are teaching students a trade and don't want there to be any confusion.

Last Year's Initiatives

Name: Begin offering fluxcore D1.1 structural tests

Action Plan

Purchase larger diameter fluxcore wire in order to offer destructive tests consistent with the American Welding Society (AWS).

Obtain weld procedure specifications (WPS) from the AWS.

Lead Measure of Success

Purchase of larger diameter fluxcore wire. The larger diameter wire is needed based on the metal thicknesses students will be using.

Accessing AWS website to obtain WPS for this particular test.

Lag Measure of Success

Offering test.

Initiative Status

Completed

Summarize actions taken on this initiative

This has been completed and implemented in the WELD C210 course.

Name: Become certified to offer an OSHA 10 course

Action Plan

Department Chair and Faculty member will seek to take necessary courses in order to offer an OSHA 10 course. This came out of our advisory committee meeting.

Lead Measure of Success

Research courses needed in order to be an authorized instructor for this course.

Lag Measure of Success

Enroll in and complete courses.

Initiative Status

In Progress

Summarize actions taken on this initiative

There are two courses that are needed to be completed in order to offer OSHA 10 certification. We have completed one of the two.

Name: Begin offering a forklift certification course

Action Plan

This was an initiative from last year continuing this year. The curriculum has been written and approved by CIC. Once the course is approved, we will begin offering it.

Lead Measure of Success

Having this course approved at the state level

Lag Measure of Success

Offering course to students

Initiative Status

Completed

Summarize actions taken on this initiative

The course has been approved and offered twice so far with 100% student success.

Initiatives for Next Academic Year

Complete last class to become certified to offer an OSHA 10 safety course

Is this a multi-year Initiative? N

Specific Action Steps to be Taken

There are two courses that need to be completed in order to become certified to offer OSHA 10. The first course is complete. The second course still needs to be taken by faculty members.

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

Register and successfully complete the course.

Do you request help developing these instruments? N

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

Faculty

What unit gap or institutional goal does this address?

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

Become an authorized weld certification testing site

Is this a multi-year Initiative? N

Specific Action Steps to be Taken

Contacting various weld test facilities to begin the conversation to allow our site to become an authorized testing facility. This would open up many more job opportunities for students.

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

Making contact with testing facilities

Do you request help developing these instruments? N

Institutional Performance Data, or "Lag" Measure(s

Becoming authorized as a proctor site for non-destructive and destructive weld tests.

Person Responsible

Faculty

What unit gap or institutional goal does this address?

It addresses a strategic plan goal or objective

Begin offering AERO courses

Is this a multi-year Initiative? N

Specific Action Steps to be Taken

The curriculum for the AERO courses have been completed. The department has had meetings with industry members and are working towards offering these courses. We are currently working with Edwards Air Force base and Mojave Space port to find the best central location to begin offering these courses. The specific steps to be taken in order to offer these courses include:

Finalizing a location to offer the courses

Purchasing job specific tool sets

Hiring adjunct faculty

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

Continue working with industry members to locate the best facility to offer courses. Edwards Air Force base is currently working on a grant to build a new building strictly for this program and has offered Cerro Coso the opportunity to share this site.

Research and purchase all tooling that will be needed to train students.

Working with HR to post job openings in order to begin screening applicants.

Do you request help developing these instruments? N

Institutional Performance Data, or "Lag" Measure(s

Offering courses.

Person Responsible

Faculty Chair

What unit gap or institutional goal does this address?

It addresses a strategic plan goal or objective

Requested Resources

#47 Facilities: Outlet covers in the welding booths

Is this a one-time request or an on-going request? One-Time

Amount Requested Unknown

Is this request supported in your initiatives or elsewhere? No

Description/Explanation

When students are grinding in their welding booths, sparks can easily enter the outlets, since they are inside the welding booths. We have had this happen before and this trips the breaker. Outlet covers would prevent this from being an issue.

Supporting Facts/Data

Impact on the Department/Unit

Impact on Operational Efficiency

This would prevent downtime and potential equipment malfunctions.

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

Is this a one-time request or an on-going request? One-Time

Amount Requested None

Is this request supported in your initiatives or elsewhere? None

Description/Explanation

The department would like to purchase new equipment for the Welding program and put the new equipment in place of the old exhaust unit that has been out of service for at least 15 years.

Supporting Facts/Data

Impact on the Department/Unit

Impact on Operational Efficiency

Faculty Position Requests

Industrial Arts Welding Faculty

Locations

EKC Tehachapi

Justification

The Welding program has seen substantial growth in Tehachapi. Enrollments have more than doubled in the last couple of years. We are currently only able to offer two classes per semester in Tehachapi due to our instructor there being an adjunct. This is making it difficult for students to complete their certificates quickly. The department also has plans to expand to Mojave and potentially Boron. This new faculty member would serve all of these locations.

Classified Position Requests

N/A

Locations

Justification

We are not requesting any classified staff this year.

Salary Grade

Number of Months per Year

Number of Hours per Week

Salary Amount

Industrial Arts AUP Budget Request Worksheet for FY27

Fund	Org Description	Account Description	Program Description	Activity	Location	2025 Adopted Budget	2025 Actual Expenses	2026 Adopted Budget	2027 Request	Notes	Increase?	If requesting increase of %5 or more: In planning document	Data?	Relevance?	Operational Efficiency?
GU001	Industrial Arts Departm	Non-Inst Supplies & Materials	Welding Technology		CI	$ 300.00	$ -	$ 300.00	$ 300.00		no				
GU001	Industrial Arts Departm	Maint & Repairs Supplies	Welding Technology		CI	$ 1,000.00	$ -	$ 1,500.00	$ 1,500.00		no				
GU001	Industrial Arts Departm	Other Services & Expenses	Industrial/Manufacturing Tech		CI	$ -	$ 320.00		$ 320.00		no				
LR001	Industrial Arts Departm	Inst Supplies & Materials	Welding Technology		CI	$ 45,000.00	$ 45,431.11	$ 45,000.00	$ 45,000.00		no				
LR001	Industrial Arts Departm	Inst Supplies & Materials	Welding Technology		CT			$ 10,000.00	$ 10,000.00		no				