



CERTIFICATE OF ACHIEVEMENT IN WELDING

In Workflow

1. IT Chair (brianu@cos.edu)
2. IT Dean (jonnas@cos.edu)
3. Curriculum Coordinator Technical Review (sarahha@cos.edu)
4. Articulation Officer (mainouh@cos.edu)
5. Academic Resources Specialist (danielal@cos.edu)
6. IT Representative (travisa@cos.edu)
7. Financial Aid Rep (amandac@cos.edu)
8. LIBR Representative (emilyc@cos.edu)
9. Curriculum Coordinator Regen (sarahha@cos.edu)
10. Christopher Huff (christopherhu@cos.edu)
11. Vice President of Academic Affairs (jessew@cos.edu)
12. IT Curriculum Committee Subgroup Vote (davidhey@cos.edu; quinnm@cos.edu; jessicabo@cos.edu)
13. Curriculum Coordinator CC Slate Prep (sarahha@cos.edu)
14. Curriculum Committee Slate Vote (danielal@cos.edu)
15. Curriculum Committee Action Item (danielal@cos.edu)
16. Academic Senate President (juana@cos.edu)
17. Board of Trustees (danielal@cos.edu)
18. Chancellor's Office (danielal@cos.edu)

Approval Path

1. Mon, 05 Jan 2026 16:14:29 GMT
Brian Unruh (brianu): Approved for IT Chair
2. Mon, 05 Jan 2026 20:56:37 GMT
Jonna Schengel (jonnas): Approved for IT Dean
3. Mon, 26 Jan 2026 18:53:37 GMT
Sarah Harris (sarahha): Approved for Curriculum Coordinator Technical Review
4. Mon, 26 Jan 2026 20:23:25 GMT
Mainou Her (mainouh): Approved for Articulation Officer
5. Wed, 28 Jan 2026 21:35:26 GMT
Daniel Alvarado (danielal): Approved for Academic Resources Specialist
6. Thu, 29 Jan 2026 19:19:48 GMT
Travis Asher (travisa): Approved for IT Representative
7. Tue, 03 Feb 2026 16:45:53 GMT
Amanda Cota (amandac): Approved for Financial Aid Rep
8. Tue, 03 Feb 2026 16:50:30 GMT
Emily Campbell (emilyc): Approved for LIBR Representative
9. Tue, 03 Feb 2026 22:58:25 GMT
Sarah Harris (sarahha): Approved for Curriculum Coordinator Regen
10. Tue, 03 Feb 2026 23:02:12 GMT
Christopher Huff (christopherhu): Approved for christopherhu
11. Mon, 23 Mar 2026 15:49:35 GMT
Jesse Wilcoxson (jessew): Approved for Vice President of Academic Affairs
12. Mon, 23 Mar 2026 23:16:52 GMT
2/3 votes cast.
Yes: 100% No: 0%
Quinn MacPherson (quinnm): Approved for IT Curriculum Committee Subgroup Vote
13. Tue, 24 Mar 2026 22:41:06 GMT
Sarah Harris (sarahha): Approved for Curriculum Coordinator CC Slate Prep
14. Fri, 10 Apr 2026 20:08:31 GMT
Sarah Harris (sarahha): Approved for Curriculum Committee Slate Vote

Votes Cast: 2



Yes 100%
 No 0%

Full Voting Results

User	Vote
Quinn MacPherson	Yes
David Heywood Jr	Yes

History

1. Mar 15, 2018 by clmig-jwehrheim
2. Apr 2, 2018 by Daniel Alvarado (danielal)
3. Apr 16, 2018 by Daniel Alvarado (danielal)
4. Apr 18, 2018 by Daniel Alvarado (danielal)
5. May 9, 2018 by Daniel Alvarado (danielal)
6. Jul 29, 2020 by Daniel Alvarado (danielal)
7. May 17, 2021 by Randy Emery (randye)
8. Jun 7, 2021 by Daniel Alvarado (danielal)
9. Mar 8, 2022 by Daniel Alvarado (danielal)
10. Mar 8, 2022 by Daniel Alvarado (danielal)
11. Apr 13, 2023 by Christopher Huff (christopherhu)
12. Dec 23, 2025 by Christopher Huff (christopherhu)

Date Submitted: Tue, 30 Dec 2025 23:45:30 GMT

Viewing: Certificate of Achievement in Welding

Last approved: Tue, 23 Dec 2025 16:59:47 GMT

Last edit: Wed, 22 Apr 2026 21:24:29 GMT

Changes proposed by: christopherhu

Proposer and Co-Contributor(s):

Proposer:

Name:	Email:
Chris Huff	christopherhu@cos.edu

General

Credit Status:

Credit

Program Award:

Certificate of Achievement (8-15.5 units)

Effective Term:

Fall 2027

Department:

Welding

Program Title

Certificate of Achievement in Welding

Program Goal:

CTE

Secondary Program Goal

Local

**Distance Ed Program:**

No

Catalog Description:

This certificate prepares students for entry-level employment in the field(s) of welding and fabrication, both locally and internationally, and completion of this certificate can be enhanced for industry standards by students completing and passing American Welding society certifying tests. Students completing this certificate will acquire entry level skills in shielded metal arc, gas metal arc, gas tungsten metal arc, oxyfuel welding, oxyfuel cutting skills. Students will know basic metallurgy, blueprint design and reading, as well as the scientific principles of welding.

Career and Transfer Opportunities:**Career Opportunities**

Upon successful completion of this certificate, students will be prepared for employment in the following industries: Metal fabrication and repair in the manufacturing and construction industries. Maintenance welding and repair in the food processing industries. Welding-related quality control and inspection on welding-related applications.

Program Outcomes**Program Outcomes:****Program Outcomes**

- Adjust, operate, and troubleshoot shielded metal arc welding, gas tungsten arcwelding, gas metal arc welding, oxyfuel welding, and oxyfuel cutting apparatuses to industry standards.
- Choose the correct joint prep process for the weld metal joints and complete that joint prep to industry standards.
- Perform groove, lap, fillet and seam welds using SMAW, GTAW, GMAW and OFW apparatuses to industry standards.
- Perform basic welding inspection tasks relating to manufacturing and construction applications.

Program Requirements:**Requirements****Program Requirements**

Code	Title	Units
REQUIRED CERTIFICATE COURSES		22
WELD 162	Shielded Metal Arc Welding	4
WELD 171	Gas Metal Arc Welding	4
WELD 172	Gas Tungsten Arc Welding	4
WELD 181	Blueprint Reading/Metallurgy	3
WELD 200	Welding Fundamentals	4
WELD 276	Metal Fabrication	3
or AGTC 210	Agriculture Project Construction	
+		
RESTRICTED ELECTIVES		3-4
Select 3-4 units from the following courses:		
WELD 104	Metal Sculpture	3
WELD 105	Metalcraft Welding & Forging	3
WELD 273	Stainless Steel Weld / Repair	4
WELD 274	Aluminum Welding	4
WELD 275	Welding Codes/Certification	4
=		
TOTAL		25-26

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Units for Degree Major or Area of Emphasis (Min):

25

**Units for Degree Major or Area of Emphasis (Max):**

26

Total Units for Degree (Min):

25

Total Units for Degree (Max):

26

State Requirements:**TOP Code:**

095650 - * Welding Technology

Projected Annual Completers:

18

Net Annual Labor Demand (CTE only):

1264

Faculty Workload:

1.8

New Faculty Positions:

0

New Faculty Justification:

Qualified faculty exist and are available to instruct this program.

New Equipment:

0

New Equipment Justification:

The new welding Lab in Tulare continues to be up graded to better serve the students . New electrical outlets and work ares are on line.

The new welding inspection lab is under development to expand educational oppourtunities for students.

New/Remodeled Facilities:

0

New/Remodeled Facilities Justification:

The new welding Lab in Tulare continues to be up graded to better serve the students . New electrical outlets and work ares are on line. .

Library Acquisitions:

0

Library Acquisitions Justification:

Library and learning resources are adequate to meet the needs of this program.

Next Curriculum Review Date:

03/2026

Place of Program in Curriculum/Similar Programs:

This is the only certificate of achievement in welding. There is also an AS in Welding offered by the college.

Similar Programs at other colleges in Service Area:

Welding programs are offered Reedley College and Fresno City College.



Compliance:

Based on Model Curriculum (if applicable):

N/A

Licensing or Accreditation Standards:

N/A

Student Selection and Fees:

Students for the welding program are selected through the normal enrollment process.

Attachments:

LMI and/or Employer Survey

Welding - CofA - LMI - 2018.pdf

Welding LMI, 2020.pdf

Welding LMI, 2022.pdf

Welding LMI, 2024.pdf

095650_Welding Technology_June 2025).pdf

Welding LMI-2025.pdf

Local Advisory Committee Members

Welding - CofA - Advisory - 2017.docx

Advisory Committee 2020-21.pdf

Advisory Committee Members 21-22.docx

Welding Advisory Members & Minutes 2024.docx

2025_advisory minutes_members (1).pdf

Local Advisory Committee Meeting Minutes

Advisory meeting Feb20 (1).pdf

Advisory Committee Minutes.docx

Welding Advisory Members & Minutes 2024.docx

2025_advisory minutes (1).pdf

Database

Effective Catalog

2026-2027

Proposal Type

Non-Substantial

CIP Code:

480508 - Welding Technology/Welder.

Banner Program Code:

CT-WELD3

Gainful Employment:

Yes

Justification/Rationale:

Updated to match AS

Removed WELD 161 and replaced with WELD 200

Reviewer Comments

Sarah Harris (sarahha) (Mon, 26 Jan 2026 18:53:33 GMT): Updated net annual labor demand and attached LMI

Sarah Harris (sarahha) (Tue, 24 Mar 2026 22:41:03 GMT): Updated effective date as fall 26 deadline has passed



Sarah Harris (sarahha) (Fri, 10 Apr 2026 20:10:18 GMT): Note - moved from slate to action per faculty request, so that item can be amended in committee to add WELD 277 to the list of restricted electives.

Key: 153