

**Advisory Committee Fall 2022 Agenda**  
**Welding**

November 10, 2022– Skills Training Center, Multipurpose Room 400

**Members present:**

Joey Davis- Airgas  
Jim Harris  
Mark Patterson-Patterson Welding and Supply  
Brian Aldrich-Sharp Iron Group  
Jeremy Palacios-Eagle Railcar

**Vernon College Faculty/ Staff:**

David “Chaz” Tepfer  
Bettye Hutchins  
Tracy Catlin  
Mark Cisneros  
Debbie Richard

**Members not present**

Blair Shipp-Shipp Welding  
Johnny Brown- Brown Brothers Welding

**Guests:**

Ashley Miller-Express Employment

*Chaz Tepfer thanked everyone for their participation on the committee and for coming to the meeting After introductions, Bettye Hutchins reviewed the purpose of the committee and asked for volunteers or nominations for vice-chair and recorder.*

Chair: Jeremy Palacios  
Vice-Chair: Jim Harris  
Recorder: Mark Patterson

Old Business/Continuing Business.....Jeremy Palacios

*Chaz Tepfer updated members on the fact that a new submersible Arc Welder was too expensive for the college to purchase at this time. Jim Harris suggested looking into a used one. Chaz said he would. After hearing no more discussion Jeremy Palacios moved on to new business.*

New Business .....Jeremy Palacios

❖ **Review program outcomes, assessment methods/results, and workplace competency**

*Jeremy Palacios asked Chaz Tepfer to review the program outcomes with the committee. Chaz Tepfer reviewed the outcomes listed below with the committee.*

**Program outcomes**

1. Correctly read and interpret blueprints and weld symbols.
2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.

3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint.

❖ **Approve program outcomes**

*Jeremy Palacios asked the committee for a motion to approve the program outcomes as presented.*

*Mark Patterson made a motion to approve the program outcomes as presented.*

*Jim Harris seconded the motion.*

*The motion passed and the committee approved the program outcomes as presented.*

❖ **Approve assessment methods and results**

*Jeremy Palacios asked the faculty member, Chaz Tepfer, to explain in more detail the assessment methods and results. Chaz reviewed the following information:*

The method of grading in the Capstone course, WLDG1427 Welding Codes and Standards, is through various qualification tests. There are also labs, quizzes, presentations, and demonstrations.

*Jeremy Palacios asked for a motion to approve the assessment methods as presented.*

*Jim Harris made a motion to approve the assessment methods as presented.*

*Brian Aldrich seconded the motion.*

*The motion passed and the committee approved the assessment methods as presented.*

❖ **Approval of workplace competency (course or exam)**

*Jeremy Palacios asked the faculty member, Chaz Tepfer, to discuss the competency and how the students have performed on the competency.*

Program Outcome	Number of students who took the course or licensure exam	Results per student	Use of results
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1. Correctly read and interpret blueprints and weld symbols.	5 students Fall 21 4 students Spring 22 0 students Sum 22	100% 100%	Comments below
2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	5 students Fall 21 4 students Spring 22 0 students Sum 22	100% 100%	
3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	5 students Fall 21 4 students Spring 22 0 students Sum 22	100% 100%	
4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	5 students Fall 21 4 students Spring 22 0 students Sum 22	80% 75%	
5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	5 students Fall 21 4 students Spring 22 0 students Sum 22	80% 75%	
6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint	5 students Fall 21 4 students Spring 22 0 students Sum 22	100% 100%	
7. Safely demonstrate Metal Cored Arc Welding (MCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	5 students Fall 21 4 students Spring 22 0 students Sum 22	100% 100%	

The use of these results is used by the instructor and student to see what the student has learned thus far. If the student needs more training in any specific area they can receive that training.

Verification of workplace competencies:

WLDG 1317 – Introduction to layout and Fabrication

WLDG 2413 – Intermediate Welding Using Multiple Processes

*Jeremy Palacios asked the committee for a motion to approve the workplace competency as presented.*

*Joey Davis made a motion to approve the workplace competencies as presented.*

*Jim Harris seconded the motion.*

*The motion passed and the committee approved the workplace competency as presented.*

❖ **Review program curriculum/courses/degree plans**

*Jeremy Palacios asked will the faculty member, Chaz Tepfer, to discuss the program's curriculum and degree plan for 2022-2023 with the committee.*

*Chaz Tepfer reviewed the following information with the committee.*

## **Basic Welding, Level 1 Certificate**

**CIP 48.0508**

Instructional Location – Skills Training Center

**CERTIFICATE OF COMPLETION** (Probable Completion Time - 32 weeks or 2 semesters)

**Major Requirements (25 SH)**

LEAD 1100	Workforce Development with Critical Thinking	1
WLDG 1317	Introduction to Layout and Fabrication	3
WLDG 1337	Introduction to Welding Metallurgy	3
WLDG 1313	Introduction To Blueprint Reading For Welders	3
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW) (A)	4
WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
<b>Total Credit Hours:</b>		<b>26</b>

*(A) Course included on the State's Advanced Technical Credit list. (See Advanced Technical Credit.)*

## **Advanced Welding, Level 1 Certificate**

**CIP 48.0508**

Instructional Location – Skills Training Center

**CERTIFICATE OF COMPLETION** (Probable Completion Time - 32 Weeks or Two Semesters)**Major Requirements (20 SH)**

WLDG 1327	Welding Codes and Standards	3
WLDG 2413	Intermediate Welding Using Multiple Processes	4
WLDG 2453	Advanced Pipe Welding	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	4

**Total Credit Hours: 19**

Add AWS D1.1 Structural Steel qualification to WLDG 1327

## **Welding, A.A.S.**

**CIP 48.0508**

Instructional Location - Skills Training Center

**ASSOCIATE IN APPLIED SCIENCE DEGREE** (Probable completion Time - 2 years)**General Education Requirements (15 SH)**

ENGL 1301	Composition I	3
GOVT 2305	Federal Government (Federal Constitution and Topics)	3
MATH 1314	College Algebra	3
	or	
MATH 1332	Contemporary Mathematics	3
SPCH 1315	Public Speaking	3
LEAD 1100	Workforce Development with Critical Thinking	1
SFF>	Language, Philosophy, and Culture or Creative Arts Elective	3

**Major Requirements (45 SH)**

WLDG 1337	Introduction to Welding Metallurgy	3
WLDG 1313	Introduction To Blueprint Reading For Welders	3
WLDG 1317	Introduction To Layout And Fabrication	3
WLDG 1327	Welding Codes and Standards	3

WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW) (A)	4
WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
WLDG 2413	Intermediate Welding Using Multiple Processes	4
WLDG 2453	Advanced Pipe Welding	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	4
<b>Total Credit Hours:</b>		<b>60</b>

> To be selected from the following: ARTS 1301, DRAM 1310, DRAM 2366, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, HIST 2311, HIST 2312, MUSI 1306

(A) Course included on the State's Advanced Technical Credit list. (See Advanced Technical Credit.)

Add AWS D1.1 Structural Steel qualification to WLDG 1327

Course descriptions and learning outcomes provided as a separate document.

❖ **Approve program revisions (if applicable)**

*Jeremy Palacios asked if there was any discussion. Hearing none and having no curriculum changes he continued on.*

❖ **Approve 2022-2023 SCANS, General Education, Program Outcomes, and Institutional Outcome Matrices.**

*Jeremy Palacios asked the faculty member, Chaz Tepfer, to discuss the matrices with the committee.*

**SCANS Matrix:** The SCANS (Secretary's Commission on Achieving Necessary Skills) Matrix represents the 8 Federal requirements that must be taught. The matrix shows how we are mapping them back to each of the courses in the program.

Program: Welding								Credential: Associate in Applied Science (AAS) Degree	
Award: Welding Associate in Applied Science (AAS) Degree									
Cip: 48.0508									
LIST OF ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES									
SCANS COMPETENCIES								Course Number	Course Title
1	2	3	4	5	6	7	8		
X	X	X	X	X	X		X	WLDG 2443**	Advanced Shielded Metal Arc Welding (SMAW)
X	X	X	X	X	X		X	WLDG 2447 **	Advanced Gas Metal Arc Welding (GMAW)
X	X			X	X		X	WLDG 1337*	Introduction to Welding Metallurgy
X	X	X	X	X	X		X	WLDG 1313*	Introduction to Blueprint Reading for Welders
X	X	X	X	X	X		X	WLDG 1317*	Introduction to Layout and Fabrication
X	X	X	X	X	X	X	X	WLDG 1327**	Welding Codes and Standards
X	X		X	X	X		X	WLDG 1428*	Introduction to Shielded Metal Arc Welding (SMAW)
X	X		X	X	X		X	WLDG 1430*	Introduction to Gas Metal Arc Welding (GMAW)
X	X		X	X	X		X	WLDG 1434*	Introduction to Gas Tungsten Arc (GTAW) Welding
X	X	X	X	X	X		X	WLDG 1435*	Introduction to Pipe Welding
X	X	X	X	X	X		X	WLDG 2413**	Intermediate Welding Using Multiple Processes
X	X	X	X	X	X		X	WLDG 2453**	Advanced Pipe Welding
X	X		X	X	X	X		LEAD 1100	Workforce Development with Critical Thinking
							8. BASIC USE OF COMPUTERS		
							7. WORKPLACE COMPETENCIES		
							6. PERSONAL QUALITIES		
							5. THINKING SKILLS		
							4. SPEAKING AND LISTENING		
							3. ARITHMETIC OR MATHEMATICS		
							2. WRITING		
							1. READING		

**General Education Matrix: The General Education Matrix is state-mandated. You will see the 6 requirements that the college is tasked with teaching and how they map back to the courses.**

Program: Welding							Credential: Associate in Applied Science (AAS) Degree	
Award: Welding Associate in Applied Science (AAS) Degree								
Cip: 48.0508								
LIST OF ALL COURSES REQUIRED AND IDENTIFIED CORE OBJECTIVES								
GENERAL EDUCATION CORE OBJECTIVES						Course Number	Course Title	
1	2	3	4	5	6			
X	X		X	X	X	WLDG 2443**	Advanced Shielded Metal Arc Welding (SMAW)	
X	X		X	X	X	WLDG 2447**	Advanced Gas Metal Arc Welding (GMAW)	
X	X			X	X	WLDG 1337*	Introduction to Welding Metallurgy	
X	X	X	X	X	X	WLDG 1313*	Introduction to Blueprint Reading for Welders	
X	X	X	X	X	X	WLDG 1317*	Introduction to Layout and Fabrication	
X	X	X	X	X	X	WLDG 1327**	Welding Codes and Standards	
X	X		X	X	X	WLDG 1428*	Introduction to Shielded Metal Arc Welding (SMAW)	
X	X		X	X	X	WLDG 1430*	Introduction to Gas Metal Arc Welding (GMAW)	
X	X		X	X	X	WLDG 1434*	Introduction to Gas Tungsten Arc (GTAW) Welding	
X	X		X	X	X	WLDG 1435*	Introduction to Pipe Welding	
X	X	X	X	X	X	WLDG 2413**	Intermediate Welding Using Multiple Processes	
X	X		X	X	X	WLDG 2453**	Advanced Pipe Welding	
X	X		X	X	X	LEAD 1100	Workforce Development with Critical Thinking	
					6. Personal Responsibility			
				5. Social Responsibility				
			4. Teamwork					
		3. Empirical and Quantitative Skills						
	2. Communication Skills							
1. Critical Thinking Skills								



**Program Outcomes Matrix:** The Outcomes Matrix represents the Vernon College mandated requirements. They are the Program outcomes just approved and how they map back to the courses.

<b>Program: Welding</b>							<b>Credential: Associate in Applied Science (AAS) Degree</b>
<b>Award: Welding Associate in Applied Science (AAS) Degree</b>							
<b>Cip: 48.0508</b>							
<b>LIST OF ALL COURSES REQUIRED AND OUTCOMES</b>							
<b>OUTCOMES</b>						<b>Course Number</b>	<b>Course Title</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>		
X	X				X	WLDG 2443**	Advanced Shielded Metal Arc Welding (SMAW)
X		X			X	WLDG 2447 **	Advanced Gas Metal Arc Welding (GMAW)
					X	WLDG 1337*	Introduction to Welding Metallurgy
X					X	WLDG 1313*	Introduction to Blueprint Reading for Welders
X	X	X	X	X	X	WLDG 1317*	Introduction to Layout and Fabrication
X	X	X	X	X	X	WLDG 1327**	Welding Codes and Standards
X	X					WLDG 1428*	Introduction to Shielded Metal Arc Welding (SMAW)
X		X				WLDG 1430*	Introduction to Gas Metal Arc Welding (GMAW)
X				X		WLDG 1434*	Introduction to Gas Tungsten Arc (GTAW) Welding
X	X	X	X			WLDG 1435*	Introduction to Pipe Welding
X	X	X	X	X	X	WLDG 2413**	Intermediate Welding Using Multiple Processes
X	X	X	X	X	X	WLDG 2453**	Advanced Pipe Welding
						6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint.	
						5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	
						4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	
						3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	
						2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	
						1. Correctly read and interpret blueprints and weld symbols.	

**Institutional Outcomes Matrix:** The Institutional Outcomes Matrix represents the Vernon College mandated requirements. This matrix represents how the program outcomes map back to the institutional outcomes/general education outcomes.

Program: Welding						Credential: Associate in Applied Science (AAS) Degree
Award: Welding Associate in Applied Science (AAS) Degree						
Cip: 48.0508						
LIST OF ALL COURSES REQUIRED AND OUTCOMES						
OUTCOMES						General Education Outcomes
1	2	3	4	5	6	
X	X	X	X	X	X	1. Critical Thinking Skills
X	X	X	X	X	X	2. Communication Skills
X					X	3. Empirical and Quantitative Skills
X	X	X	X	X	X	4. Teamwork
X	X	X	X	X	X	5. Social Responsibility
X	X	X	X	X	X	6. Personal Responsibility
						6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint.
						5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
						4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
						3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
						2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
						1. Correctly read and interpret blueprints and weld symbols.

*Jeremy Palacios opened the floor for discussion and recommendations from the committee. Hearing no discussion, Jeremy asked for a motion to approve the matrices as presented.*

*Joey Davis made a motion to approve the matrices as presented.*

*Brian Aldrich seconded the motion.*

*The motion passed and the committee approved the matrices as presented.*

❖ **Program statistics: Graduates (from previous year/semester), current majors, current enrollment**

*Jeremy Palacios asked the faculty member, Chaz Tepfer, to review the following information with the committee.*

**Faculty member discussion:**

- Program Statistics:
  - Graduates 2021-2022: 9
  - Enrollment Summer 2022: 22
  - Majors Fall 2022-2023: 152
  - Enrollment Fall 2022: 152

*Jeremy Palacios opened the floor for discussion and recommendations from the committee. Members wanted to know if these were duplicated or unduplicated students. Chaz informed them they were duplicated. Members asked if for next year they could get the unduplicated number of students. Chaz said he would try.*

❖ **Local Demand**

*Jim Harris does not hire but he knows every shop many could use the help.*

*Mark Patterson does not hire, but he services shops that do hire and he knows they need help.*

*Brian Aldrich said that Sharp Iron is always trying to grow. They are always in need of good welders.*

*Joey Davis from Airgas said he needs drivers.*

*Jeremy Palacios said they have openings at Eagle Railcar.*

*Ashley Miller with Express Employment told members about their mission to help students find employment locally. She explained the students are employees of Express for the first 540 hours and then companies can choose to hire them or not and they expense of training and medical and other expenses are all on Express. This is a great way for employers to find out if the students are a great fit for them and visa versa. This is no cost to the students. They also have an internship program. They also have a program that helps students to do a resume, how to dress, how to sell yourself, and what should not be on social media. How to make a good first impression.*

❖ **Evaluation of facilities, equipment, and technology. Recommendation for the acquisition of new equipment and technology.**

*Jeremy Palacios asked if the committee had the time to see the labs if not please take the time after the meeting.*

*Chaz informed the committee that no new equipment has been purchased. He has received a quote for a SAW table from Lincoln.*

*Jeremy Palacios asked if there was any discussion. Hearing none he continued on.*

❖ **External learning experiences, employment, and placement opportunities**

"Vernon College offers a job board on the website. Businesses can contact Chelsey Henry, Coordinator of Career Services, [chenry@vernoncollege.edu](mailto:chenry@vernoncollege.edu), to add jobs or you can post yourself. VC also subscribes to a service called GradCast. Within this program, over 600,000 business and industry contacts are available to the graduates to send up to 100 free resumes within a set zip code. If you would like to have your business as part of that database, please contact Bettye Hutchins at, [bhutchins@vernoncollege.edu](mailto:bhutchins@vernoncollege.edu)."

Placement Rate of Program Completers by Reporting Year [1]												
Program	2016-2017			2017-2018			2018-2019			3-Year Average		
	Plc	Cmp	%	Plc	Cmp	%	Plc	Cmp	%	Plc	Cmp	%
48050000-Precision Metal Working	35	35	100%	20	21	95.24%	15	15	100%	70	71	95.59%

**CHAIR:** "Is there any further discussion?"

❖ **Professional development of faculty and recommendations**

*Jeremy Palacios asked the committee to take the opportunity to review the professional development opportunities the faculty has taken or will take.*

Vernon College has several faculty development opportunities throughout the year, face-to-face and online development training

*Jeremy Palacios sked if there was any discussion or recommendations for professional development for the faculty. Hearing none he continued on.*

**Promotion and publicity (recruiting) about the program to the community and business and industry**

*Jeremy Palacios asked the committee to review the promotion and publicity opportunities that those leading the program have taken advantage of.*

Vernon College is always trying to promote the Welding Program through several outlets; Web-Site, Facebook, Twitter, and Instagram.

Chaz was able to have some tours come to the weld shop last spring and have 6 students from the CEC center attending the program this Fall.

*Jeremy Palacios sked if there was any discussion. Mark Patterson suggested that Chaz host a high school weld off, where maybe some of the area businesses could donate prizes for it. Members thought that sounded like a great idea. Chaz said he would be calling on them for donations if he did this.*

*Jeremy Palacios asked if there was any further discussion, hearing none he moved to special populations*

❖ **Serving students from special populations:**

*Jeremy Palacios asked the committee to please note the federal definition of special populations below. Bettye Hutchins discussed the services below for students who qualify.*

Vernon College is an open-enrollment college. The Proactive Assistance for Student Services (PASS) department offers many services for documented disabilities such as but not limited to quiet testing, longer testing times, interpreters, and special equipment.

Vernon College has a program titled "New Beginnings" for students who qualify to receive transportation, childcare, and/or textbook loans. Perkins funding is also offering assistance to break down barriers such as uniform, supply, and equipment costs.

Peer to Peer mentoring, tutoring (online and in-person), resume building, student success series, and counseling are just a few of the other options/services available to students.

1. Special population's new definitions:

- a. Individuals with disabilities;
- b. Individuals from economically disadvantaged families, including low-income youth and adults;
- c. Individuals preparing for nontraditional fields: 4 females, rest males
- d. Single parents, including single pregnant women;
- e. Out-of-workforce individuals;
- f. English learners;
- g. Homeless individuals described in section 725 of the McKinney-Vento Homeless Assistance Act (42 U.S.C. 11434a);
- h. Youth who are in, or have aged out of, the foster care system; and
- i. Youth with a parent who—
  - i. is a member of the armed forces (as such term is defined in section 101(a)(4) of title 10, United States Code);
  - ii. is on active duty (as such term is defined in section 101(d)(1) of such title).

*Jeremy Palacios asked the committee if there was any further discussion. Hearing none, he moved to adjourned the meeting at 12:57pm.*

Recorder Signature 	Date 1-04-23	Next Meeting: Fall 2022
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