Advisory Committee Fall 2021 Minutes
Welding
12:00 pm – November 11, 2021 – Skills Training Center, Multipurpose Room 400

Members present:
John Brown
Jim Harris
Mark Patterson
Ty Bagwill
Jeremy Palacios

Members not present:
Joey Davis
Blair Shipp
Ronnie Stallcup

Vernon College Faculty/ Staff:
David "Chaz" Tepfer
Dr. Mark Holcomb
Colleen Moore
Holly Scheller
Delilah Fowler
Debbie Richard
Tracy Catlin
Shana Drury

Chaz Tefper thanked everyone for their participation on the committee. Shana Drury reviewed the purpose of the committee. Then, Shana asked for volunteers for vice-chair and recorder.

Chair: Jim Harris
Vice-Chair: Ty Bagwill
Recorder: Mark Patterson

Old Business/Continuing Business.....Jim Harris

Without any old business on the agenda, Jim Harris began the meeting moving on to new business.

New Business .....Jim Harris

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

Jim Harris 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 blueprint.

❖ **Approve program outcomes**

Jim Harris 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.
John Brown seconded the motion.

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

❖ **Approve assessment methods and results**

Jim Harris 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.

Jim Harris asked for a motion to approve the assessment methods as presented.
Mark Patterson made a motion to approve the assessment methods as presented.
John Brown seconded the motion.

The motion passed and the committee will approve the assessment methods as presented.

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

Jim Harris asked the faculty member, Chaz Tepfer, to tell the committee more about the competency and how the students have performed on the competency.

Program Outcome	Number of students who took course or licensure exam	Results per student	Use of results
1. Correctly read and interpret blueprints and weld symbols.	12 students Fall 20 8 students Spring 21 3 students Sum 21	100% 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.	12 students Fall 20 8 students Spring 21 3 students Sum 21	83% 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.	12 students Fall 20 8 students Spring 21 3 students Sum 21	83% 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.	12 students Fall 20 8 students Spring 21 3 students Sum 21	83% 100% 100%	
5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	12 students Fall 19 8 students Spring 20 3 students Sum 20	75% 100% 0%	
6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint	12 students Fall 20 8 students Spring 21 3 students Sum 21	100% 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.	12 students Fall 19 8 students Spring 20 3 students Sum 20	83% 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

Jim Harris asked the committee for a motion to approve the workplace competency as presented.
Mark Patterson made a motion to approve the workplace competencies as presented.
Ty Bagwill seconded the motion.

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

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

Jim Harris 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 (26 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
	Total Credit Hours:	**26**

(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 (19 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**

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 or	College Algebra	3
MATH 1332	Contemporary Mathematics	
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
	Total Credit Hours:	**60**

> 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.)

Course descriptions and learning outcomes are provided as a separate document.

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

Jim Harris asked for a motion to approve the program revisions as presented.
made a motion to approve the program revisions as presented.
Johnny Brown seconded the motion.

The motion passed and the committee approved the program revisions as presented.

- **Approve 2021-2022 SCANS, General Education, Program Outcomes, and Institutional Outcome Matrices.**

Jim Harris 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 1417	Introduction to Layout and Fabrication
X	X	X	X	X	X	X	X	WLDG 1427	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 1413	Introduction to Blueprint Reading for Welders
X	X	X	X	X	X	WLDG 1417	Introduction to Layout and Fabrication
X	X	X	X	X	X	WLDG 1427	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.

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							**Course Number**	**Course Title**
1	**2**	**3**	**4**	**5**	**6**	**7**		
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 1413	Introduction to Blueprint Reading for Welders
X	X	X	X	X		X	WLDG 1417	Introduction to Layout and Fabrication
X	X	X	X	X		X	WLDG 1427	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
							LEAD 1100	Workforce Development with Critical Thinking
							7. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by blueprint.	
							6. Safely demonstrate Metal Cored Arc Welding (MCAW) 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.	
							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**	**7**	
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
							7. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by blueprint.
							6. Safely demonstrate Metal Cored Arc Welding (MCAW) 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.
							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.

Jim Harris opened the floor for discussion and recommendations from the committee. Hearing no discussion, Jim asked for a motion to approve the matrices as presented.
Mark Patterson made a motion to approve the matrices as presented.
Ty Bagwill 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

Jim Harris asked the faculty member, Chaz Tepfer, to review the following information with the committee.

Program Statistics:

- Graduates 2020-2021: 23
- Enrollment Summer 2021: 29
- Majors Fall 2021-2022: 5/123
- Enrollment Fall 2021: 123

❖ **Local Demand**

Ty Bagwill stated that the program is still needed and they have hired around 4 welders.

John Brown stated he has not hired any in the past year and he is retiring soon, so his shop will be for sale.

Sharp Iron has hired 4-5 out of the program in the last year.

Air Tractor is looking for at least 10 welders.

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

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

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

Jim Harris asked if the committee had the time to see the labs if not please take the time after the meeting.

The Welding Program recently purchased a new track torch.
Received a donation, from Mark Patterson, of a huge Lincoln Electric to do the carbon arc gouging with.

Are there any suggestions from the advisory committee on any changes in the industry locally?

❖ **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, 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 Judy Ditmore, jditmore@vernoncollege.edu."

Placement Rate of Program Completers by Reporting Year [1]												
	2016-2017			2017-2018			2018-2019			3-Year Average		
Program	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%

- **Professional development of faculty and recommendations**

Jim Harris 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. Including training for distance learning.

Jim Harris asked if there was any discussion or recommendations for professional development for the faculty.

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

Jim Harris 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, Instagram, etc.
Face to Face recruiting has been limited still due to COVID-19.
CTE Navigator
Archer City High School Career Fair

Jim Harris asked if there was any further discussion, hearing none he moved to special populations.

- **Serving students from special populations:**

Jim Harris asked the committee to please note the federal definition of special populations below. Chaz Tepfer 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, 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 populations new definitions:
    a. Individuals with disabilities;
    b. Individuals from economically disadvantaged families, including low-income youth and adults;
    c. Individuals preparing for nontraditional fields; 6 female, rest are male
    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).

❖ **Comprehensive Local Needs Assessment (Discussion led by Shana Drury):**

-Labor Market Outlook

-Living Wage

Occupational Code	Occupation	Prevailing Hourly Wage	Prevailing Annual Wage
51-4121	Welders/Cutters/Solderers/Brazers	$ 13.69	$ 329,029.00 $32,929

Shana Drury went through a list of questions regarding the CLNA and access to Vernon College for all participants, not just Welders. Discussion ensued about access, marketing, and new occupations/training needs.

Jim Harris asked if there was any further discussion, hearing none he adjourned the meeting at 1:20 pm.

Recorder Signature- Mark Patterson	Date	Next Meeting: Fall 2022
Mark Patterson	2-15-2022	