PROGRAM ASSESSMENT PLANNING FORM

Program to be assessed:

Title: Ironworkers	Pre-Apprenticesh	nip Certificate		
Division: ATP	Depar	tment: WAF	Program Code:	CTPAIW
Type of Award:	☐ A.A. ☐ Cert.	A.S Adv. Cert.	A.A.S. Post-Assoc. Cert.	Cert. of Completion

Assessment plan:

Assessment plan:		4		
Learning outcomes to be assessed	Assessment tool	When assessment will take place	Describe population to be assessed	Number of students to be assessed
Recognize OSHA sub standards that are followed by the Ironworker trade.	Written exam	Every three years	All students in WAF 110	All
Interpret and demonstrate the use of measurements and blueprints that apply to the Ironworker trade.	Written and practical exam	Every three years	All students in WAF 114	All
Describe and apply safe work practices and applications of rigging and cranes used in the Ironworker trade.	Written and practical exam	Every three years	All students in WAF 119	All
Recall and apply safe work practices and applications when using the Shielded Metal Arc Welding, Flux-Cored Welding, Oxy-Fuel Welding and Oxy-Fuel Cutting processes that are used in the Ironworker trade.	Written and practical exam	Every three years	All students in WAF 115, 116 and 117	All

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

Departmentally-developed rubric using Blackboard written exam data and practical exam evaluation sheets.

PROGRAM ASSESSMENT PLANNING FORM

Indicate the standard of success to be used for this assessment.

70% of students will score 80% or higher.

Indicate who will score and analyze the data (data must be blind-scored).

Department faculty utilizing Blackboard.

Su	bmitted	by:

Name: Glenn Kay II

Date: 12-3-19

Print/Signature

Date: 12-3-19

Dept. Chair. -

Dean:

Please return completed form to the Office of Curriculum & Assessment, SC 257.

Program Information Report

Ironworkers Pre-Apprenticeship (CTPAIW) Certificate

Program Effective Term: Fall 2016

In this certificate program, students will be introduced to the necessary skills needed to be a Union Ironworker across the United States and Canada. Training includes print reading, safety and welding processes used by the Union Ironworker trades. Students who successfully complete the program will be eligible for advanced standing in the Ironworker Local Union Apprenticeship Training Program.

Continuing Eligibility Requirements:

All courses must be completed with a C or better.

Major/Area	Requirements	(24 credits
	CMG 115 Safety and Employability Skills	
CMG 145	Construction Plan Reading for the Trade	
CON 106	Contextualized Math for the Trades	
CON 193	Tools, Equipment and Material Handling for the Trade	
WAF 115	Oxy-Fuel Gas Cutting and Welding for Ironworkers	
WAF 116	Shielded Metal Arc Welding for Ironworkers	
WAF 117	Flux Cored Arc Welding for Ironworkers	
Minimum Cr	edits Required for the Program:	24

PROGRAM PROPOSAL FORM

Preliminary Approval – Check here items in general terms.	when using this form for preliminary approval of a	program proposal, and respond to the		
	completing this form after the Vice President for Instal, complete information must be provided for each			
Program Name:	Ironworkers Pre- Apprenticeship Program Code:			
Division and Department:	CON/ Math Science Engineering AA AS AAS	CTPAIW		
Type of Award:	Cert. Adv. Cert. Post-Assoc. Cert.	Cert. of Comp.		
Effective Term/Year:	FALL 2016	CIP Code:		
Initiator:	Glenn Kay and Cristy Lindemann	46.0401		
Program Features	This program will prepare students for entry and s			
Program's purpose and its goals. Criteria for entry into the program,	Apprenticeship program. Students who successfull for advanced standing in the Ironworkers Apprent	iceship training program.		
along with projected enrollment	Students will need to test at college readiness; 6 in enrolling.	reading and writing and 2 in math, before		
figures.	20 -25 students the first year with growth expected	over the next 5 years being driven by		
Connection to other WCC programs, as well as accrediting agencies or	industry need. Construction Technology and Welding and Fabric			
professional organizations.	International Ironworkers and Local 25. Each student that passes will receive an OSHA 10 card for construction and AWS certifications.			
Special features of the program.	Classes will be structured to cover tools, materials and processes used by structural,			
	ornamental, rebar and welding ironworkers, and will focus on the tools and material processes that an Ironworker uses in the construction industry.			
Need	According to the Bureau of Labor and Statistics:			
Need for the program with evidence to support the stated need.	Employment of ironworkers is projected to grow 2 faster than the average for all occupations. The nee			
to support the stated need.	increasing number of older roads and bridges is ex	pected to drive employment growth, as		
	will the ongoing construction of large projects, such as high-rise buildings. Job opportunities should be best in metropolitan areas, where most large construction projects take place.			
	Forecast for the Metro Detroit areas include:			
	International bridge, M-1 Rail, the arena dist			
	University of Michigan in Ann Arbor, Michi State in Detroit, Ford and GM Plant rehabil			
	and bridge construction.			
Program Outcomes/Assessment	Outcomes	Assessment method		
State the knowledge to be gained, skills to be learned, and attitudes to be developed	 Interpret OSHA sub standards that will be followed by an Ironworker. 	1. Written exam		
by students in the program.	2. Read and interpret English measurements.	2. Written and practical exam		
Include assessment methods that will	3. Use project Prints to determine dimensions.4. Describe and demonstrate Oxy-Fuel,	3. Written and practical exam		
be used to determine the effectiveness	Welding and Cutting, Flux Cored Arc, and	4. Written and practical exam		
of the program.	Shielded Metal Arc welding processes.			

Curriculum	CMG 115 - 3 Credits Safety and Employability Skills			
	CON 106- 3 Credits Contextu	* '		
List the courses in the program as they should	CMG 145- 3 Credits Print read			
appear in the catalog. List minimum credits required. Include any notes that should		quipment and Material Handling		
appear below the course list.	11	el Gas Cutting and Welding for I	ronworkers	
	I i i	Metal Arc Welding For Ironwor		
		ed Arc Welding for Ironworkers	Reis	
	24	ed Arc welding for fromworkers		
Budget		START-UP COSTS	ONGOING COSTS	
Specify program costs in the following	Faculty	\$ 10,000.00	\$ 20,000.00	
areas, per academic year:	Training/Travel	5,000 .00	2000.00	
	Materials/Resources	18,000.00	10000.00	
	Facilities/Equipment	13,000.00	5000.00	
	Other	3000.00	1000.00	
	TOTALS:	\$ 49,000.00	\$ 38,000.00	
Program Description for Catalog and Web site	In this certificate program, students will be introduced to the necessary skills needed to be a Union Ironworker across the United States and Canada. Training includes print reading, safety and welding processes used by the Union Ironworker trades. Students who successfully complete the program will be eligible for advanced standing in the Ironworker Local Union Apprenticeship Training Program.			
Program Information	Accreditation/Licensure - (OTI – OSHA 10; AWS		
	Advisors – Glenn Kay, Cristy	Lindemann		
	Advisory Committee – Edward Abbott and Kevin McDonald, other IWI and Local 25 members Admission requirements – college level			
	1	o .		
	Articulation agreements - T			

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Interpret OSHA sub standards that will be followed by an Ironworker.	Written exam	Every three years	All students in CMG 115	ALL
Read and interpret English measurements.	Written and practical exam	Every three years	All students in CON 106	ALL
Use project Prints to determine dimensions.	Written and practical exam	Every three years	All students in CMG 145	ALL
Describe and demonstrate Oxy-Fuel, Welding and Cutting, Flux Cored Arc, and Shielded Metal Arc welding processes.	Written and practical exam	Every three years	All students in WAF 117	ALL

Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

The written exam will be scored using an answer key. The practical exam will be scored using a departmental developed rubric.

2. Indicate the standard of success to be used for this assessment.

75% of students will score 70% or higher

3. Indicate who will score and analyze the data.

Departmental faculty

4. Explain how and when the assessment results will be used for program improvement.

Program and classes will be reevaluated every three years by departmental faculty, using program and course assessment requirements. Student exams and lab portfolio data will be assessed, input from industry partners, to determine if course and program changes are required.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair Construction	Cristy Lindemann	(hemon-	2.16.16
Department Chair Welding	Glenn Kay	Mlenn 7 cosk	2-16-16
Dean MSE	Kristin Good	Must Stand	2.16.16
Dean ATP	Brandon Tucker	But	2/11/16
Vice President for Instruction Approved for Development Final Approval	Michael Nealon	Tuent Ind	-4016
President	Rose Bellanca	Kree & Bellance	4/6/13
Board Approval			4/26/16

Cost Break Down Information

Cost Break Down Information	S. II C	0.6:0	D
	Start Up Costs	On Going Costs	Reason
			Part Time Faculty costs for construction
			running each class once first year, twice a
Faculty Construction	\$ 10,000.00	\$ 20,000.00	year after
Faculty Welding			
7-			Training required from Iron workers for
			existing course information Travel to local
			and international yearly 50% each
Training/Travel	\$ 5,000 .00	\$ 2000.00	department
387			Material Costs for Construction including
			steel columns beams and various rigging
			materials, Safety gear, and computer
Materials/Resources Construction	\$ 7,000.00	\$ 3,000.00	programs
Materials/Resources Welding	\$ 11,000.00		
			Equipment for construction include
			Rigging equipment, machine rental, Tools
Facilities/Equipment/Construction	\$ 8,000.00	\$ 2500.00	and safety equipment
Facilities/Equipment/Welding	\$ 5,000.00		
			Books, drawings, updated certifications
			and licenses required for staff and students
Other	\$ 3000.00	\$ 1000.00	50% each
Grand Total	\$ 49,000.00	\$ 38,000.00	