Course Discipline	Code & No: <u>UAE146</u>	Title: Air Cond	itioning Effective 7	Term <u>SS 2009</u>
Division Code: _			le: <u>UA</u>	Org #:28310
Don't publish:	College Catalog	⊠Time Schedule		
New course at	labus review/Assessment r		☐Reactivation of inact ☐Inactivation (Submit	
Change informati	on: Note all changes tha	at are being made.	Form applies only to ch	anges noted.
Consultation v required. Course discipli *Must submit Course title (w Course descrip	vith all departments affects ine code & number (was _ inactivation form for prev as	ed by this course is ious course.	Total Contact Hours Distribution of conta	(total contact hours were:) ct hours (contact hours were:) clinical other) isite, or enrollment restrictions fethod nt n
Rationale for course or course change. Attach course assessment report for existing courses that are being changed. Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.				
		New resources no		departments consulted
Print: Dew	Faculty/Preparer	Signature	D. Weld	Date: 2/2/09
Print:	Department Chair	Signature		Date:
Division Review Request for o	conditional approval	W. W		2/2/09
Curriculum Con Recommendation Tabled	mmittee Review	ean's/Administrator's Jay Je La La arriculum Committee		Date 3/18/09 Date
4.	for Instruction Approval	ce President's Signatu	re Polacy	3/17/07 Date
Do not write in shade Log File 2/18/013	Écopy Banner 3/19	,	' h	Basic skills Contact fee to sjohn@wccnet.edu for posting on the website.

Office of Curriculum & Assessment

Approved by Assessment Committee 10/06

*Complete ALL sections w	hich apply to the course, even	if changes are not bein	g made.	
Course: <u>UAE146</u>	AE146 Course title: Air Conditioning			
Credit hours: 2	Contact hours per semester:	Are lectures, labs, or	Grading options:	
If variable credit, give range:	Student Instructor	clinicals offered as separate sections?	P/NP (limited to clinical & practica)	
to credits	Lecture: <u>30</u>	Yes - lectures, labs,	S/U (for courses numbered below 100)	
	Lab: Clinical:	or clinicals are	Letter grades	
	Practicum:	offered in separate sections	Zaretter grades	
	Other:	□No - lectures, labs,		
	Totals: <u>30</u>	or clinicals are		
		offered in the same section		

Prerequisites. Select one:				
College-level Reading & Writing	ng Reduced Reading/	Writing Scores	□No Basic Skills Prerequisite	
	(Add information at Lev	ŭ	(College-level Reading and Writing is not required.)	
			()	
In addition to Basic Skills in R	eading/Writing:			
Level I (enforced in Banner)			•	
Course	Grade Test	Min. Score Concurr		
		Enrollm <u>Can</u> be taken t		
		San oc taxen p	genery a iso during the same semestery	
☐ and ☐ or				
and or				
Level II (enforced by instructor or	e first day of class)			
·	Course	Grade Test	Min. Score	
	Course	Grade Test	wiii. Score	
and or				
and or				
Enrollment restrictions (In addi	tion to prerequisites, if applicable.)			
□and □or Consent required	□and ⊠or Admission	to program required	☐and ☐or Other (please specify):	
	Program: <u>I</u>	UA apprenticeship		
Please send syllabus for trans	ofer evaluation to:			
Conditionally approved courses				
,	ou wish the course to transfer as.			
E.M.U. as		Γ	as	
U of M as		Γ	as	
as		<u>-</u>	as	
		L	as	

Course <u>UAE146</u>	Course title: Air Conditioning			
Course description State the purpose and content of the course. Please limit to 500 characters.	This course covers air conditioning systems, installation, and service. Topics include: psychrometric properties of air, building heating and cooling load calculations, control applications, energy conservation and heat recovery, in addition to a review of basic science. This course is taught at United Association (UA) Training Centers throughout the United States and Canada. Enrollment is limited to apprentices accepted in to a UA training program.			
Course outcomes	Outcomes	Assessment		
List skills and knowledge	(applicable in all sections)	Methods for determining course effectiveness		
Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	After the successful completion of this course the student will able to: Demonstrate piping operations typically performed by the air-conditioning technician Properly leak test, evacuate, and charge an air-conditioning system Perform basic service and maintenance activities of AC systems	This course is assessed externally by the local's Joint Apprenticeship Training Committee (JATC), consisting of industry representatives and UA members. The local receives feedback on needed technical updates and apprentice skill performance.		
Course Objectives	Objectives	Evaluation		
Indicate the objectives that support the course outcomes given above.	(applicable in all sections)	Methods for determining level of student performance of objectives		
Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	Objectives and evaluation methods follow the International Pipe Trades Curriculum Outline issued by the UA Training Department.			

List all new resources needed for course, including library materials.				
No new resources, courses are taught at existing UA local training and and				
	are taught at existing O11 local training schools.		<u>UAE146</u>	
See Jane Manager				
Student Materials: List examples of types				
Texts	UA local training schools provide all the necess	Estimated costs		
Supplemental reading	students.	\$ 0		
Supplies Supplies				
Uniforms				
Equipment				
Tools				
Software				
Equipment/Facilities: Ch	eck all that apply. (All classrooms have overhead	projectors and permanent screens.)		
Check level only if the specified equipment is needed for all sections of a Off-Campus Sites				
course.				
Level I classroom		Testing Center		
Permanent screen & ove	erhead projector	Computer workstations/lab		
Level II classroom		TTV		
Level I equipment plus	IV/VCR	TV/VCR		
Level III classroom		Data projector/computer		
Level II equipment plus data projector, computer, faculty workstation Other Taught at UA			ols	

Assessment plan:

Assessment plan:				
Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed
 Demonstrate piping operations typically performed by the airconditioning technician Properly leak test, evacuate, and charge an air-conditioning system Perform basic service and maintenance activities of AC systems 	Contractors (employer) provide paper feedback forms for apprentice skill performance reviews. JATC contractor members provide specifications detailing technical updates.	WCC will prepare a summary report on assessment activities in Winter 2010 and every three years thereafter.	All	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.

Individual locals use apprentice feedback forms filled out by the employing contractor.

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

The standard of success is set by the local JATC.

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

The data is analyzed by the JATC as a committee.

4. Explain the process for using assessment data to improve the course.

Results are initially shared with the training coordinator for the local. The training coordinator then works with appropriate instructor staff to make needed changes.