MASTER SYLLABUS

Course Disciplin	e Code & No: UAF128	Title: Refrigerat	ion and Electrical Controls	Effective Town CC 2000
Division Code: _	VCT		le: <u>UA</u>	Effective Term <u>SS 2009</u> Org #:28310
Don't publish:	College Catalog	∑Time Schedul		Olg #. <u>20310</u>
XNew course a ☐Three-year sy. ☐Course chang	llabus review/Assessment : e	report	Reactivation of inactiv	his page only.)
Change informati	ion: Note all changes the	at are being made.	Form applies only to char	ages noted.
Consultation vequired. Course discipl *Must submit Course title (we course descript Course objection	with all departments affectorine code & number (wasrinactivation form for prevotas	ed by this course is	Total Contact Hours (t Distribution of contact lecture: lab _	thours (contact hours were:) thours (contact hours were: clinical other) ite, or enrollment restrictions thod
Approvals Departme	ent and divisional signature		artments affected by the co	urse have been consulted. epartments consulted Date:
Print:	,, .	Signature		Date:
Recommendation	conditional approval n	ean's/Administrator's	. Welch Signature	2/2/09 Date
Recommendation Tabled	Yes No	Ga POCC erriculum Committee	Chair's Signature	
	for Instruction Approval vic es No Conditional	de President's Signatu	re Palacy	, 3/19/07 Date
on not write in shadoo	l area. Ecopy Banner 3/19	C&A Database 3/19	C&A Log File 3/19 F	lasic skills [] Contact fee []
lease return completed	form to the Office of Curric	ulum & Assessment an	d email an electronic copy to	sight@wccnet edu for parting on the website

Office of Curriculum & Assessment
Approved by Assessment Committee 10/06

Course: UAF128	which apply to the course, eve Course title: Refrigeration and	Electrical Controls	ng made.
Credit hours: 2	Contact hours per semester:	Are lectures, labs, or clinicals offered as	Grading options:
If variable credit, give range:	Student Instructor	separate sections?	P/NP (limited to clinical & practica)
to credits	Lecture: <u>30</u> <u>30</u> Lab:	Yes - lectures, labs,	S/U (for courses numbered below 100)
	Clinical:	or clinicals are offered in separate	
	Practicum: Other:	sections	
		□No - lectures, labs,	
	Totals: $\underline{30}$ $\underline{30}$	or clinicals are offered in the same	
		section	
Prerequisites. Select one:			
Ma			
College-level Reading & Writing		_	☐No Basic Skills Prerequisite
	(Add information at L	evel I prerequisite)	(College-level Reading and Writing is not required.)
In addition to Basic Skills in R	leading/Writing		
Level I (enforced in Banner)			
Course	Grade Test	Min. Score Concurr	ent Corequisites
		Enrollm	ent Must be enrolled in this class
		<u>Can</u> be taken to	ogether) a lso during the same semester)
☐ and ☐ or			
and or			
		_	
Level II (enforced by instructor o	n first day of class)		
	Course	Grade Test	Min. Score
· · · · · · · · · · · · · · · · · · ·			
and or			
Enrollment restrictions (In addi	tion to prerequisites, if applicable.)		
☐and ☐or Consent required			
Dand Dor Consent required		to program required	□and □or Other (please specify):
		UA apprenticeship	
Please send syllabus for trans			
Conditionally approved courses Insert course number and title v	are not sent for evaluation. ou wish the course to transfer as.		
E.M.U. as	ou wish the course to transfer as.		
U of M as			as
<u> </u>		L	as
as			as

Course title: Refrigeration and Electrical Controls	
This course covers the basic principles of air conditionir refrigeration cycle are identified. Topics include operation required to control the flow of refrigerant in air condition. This course is taught at United Association (UA) Training Enrollment is limited to apprentices accepted in to a UA	on and proper installation of the devices and equipment oning and refrigeration systems. In Centers throughout the United States and Canada
Outcomes	Assessment
(applicable in all sections)	Methods for determining course effectiveness
 Upon successful completion of this course, the student will be able to: Explain the basic refrigeration cycle that captures and releases heat to make something cooler Layout a basic refrigeration loop with all controls and valves necessary for efficient operation Describe the difference between centrifugal and absorption systems and the uses for each Demonstrate the ability to troubleshoot and resolve malfunctions in all types of refrigeration applications 	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.
Objectives	Evaluation
(applicable in all sections)	Methods for determining level of student performance of objectives
Objectives and evaluation methods follow the International Pipe Trades Curriculum Outline issued by the UA Training Department.	
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List examples of types	UA local training schools provide all the necessary books and materials for the	Estimated of	costs
Texts	students.		
Supplemental reading		\$ 0	
Supplies			
Uniforms			
Equipment	•		
Tools			
Software			

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Check level a 1 is the second of the second			
Check level only if the specified equipment is needed for all sections of a course.	Off-Campus Sites		
Level I classroom	Testing Center		
Permanent screen & overhead projector	Computer workstations/lab		
Level II classroom	□ITV		
Level I equipment plus TV/VCR	TV/VCR		
Level III classroom	Data projector/computer		
Level II equipment plus data projector, computer, faculty workstation	⊠Other <u>Taught at UA Local schools</u>		

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
 Explain the basic refrigeration cycle that captures and releases heat to make something cooler Layout a basic refrigeration loop with all controls and valves necessary for efficient operation Describe the difference between centrifugal and absorption systems and the uses for each Demonstrate the ability to troubleshoot and resolve malfunctions in all types of refrigeration applications 	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 2011 and every three years thereafter.	All	All

Scoring and analysis of assessment:

- 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.