MASTER SYLLABUS

Course Discipline Code & No: EWA190 Division Code:		e: UASD	
Don't publish: College Catalog	Department Cod ⊠Time Schedule	•	Org #: <u>28200</u>
Reason for Submission. Check all that apply New course approval Three-year syllabus review/Assessment a Course change	y. report	Reactivation of inactive	is page only.)
Change information: Note all changes that	at are being made.	Form applies only to chan	ges noted.
□ Consultation with all departments affects required. □ Course discipline code & number (was*Must submit inactivation form for prev □ Course title (was Course description □ Course objectives (minor changes) □ Credit hours (credits were:))* rious course.	Distribution of contact lecture: lab	
Rationale for course or course change. Att			
Approvals Department and divisional signature Department Review by Chairperson	es indicate that all dep New resources no		urse have been consulted. epartments consulted
Print: Welch Faculty/Preparer Print: Department Chair		W. Welch	Date: 2/2/09 Date:
Division Review by Dean			
☐ Request for conditional approval Recommendation ☐ Yes ☐ No	ean's/Administrator's	Welch Signature	7/2/09 Date
Recommendation Yes No	Uniculum Committee	Chair's Signature	3/18/09 Date
Vice President for Instruction Approval	lee President's Signatu	Paley.	3/19/09 Date
Do not write in shaded area.		3/2	
og File 2 17 043 Ecopy Banner 3/03	C&A Database 3/2	1	Basic skills Contact fee

Office of Curriculum & Assessment

Approved by Assessment Committee 10/06

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*Complete ALL sections v	which apply to the course, even	if changes are not bein	g made.		
Course:	Course title:				
EWA190	Transformers and Electrical Safety				
Credit hours: 2	Contact hours per semester: Student Instructor Lecture: 30 30	Are lectures, labs, or clinicals offered as separate sections? Yes - lectures, labs,	Grading options: P/NP (limited to clinical & practical) S/U (for courses numbered below 100)		
Programician C.L.	Lab:	or clinicals are offered in separate sections No - lectures, labs, or clinicals are offered in the same section	☑Letter grades		
Prerequisites. Select one:					
⊠College-level Reading & Writi	ng Reduced Reading/ (Add information at Le	ŭ	☐No Basic Skills Prerequisite (College-level Reading and Writing is <u>not</u> required.)		
In addition to Basic Skills in R	Reading/Writing:				
Level I (enforced in Banner) Course	Grade Test	Min. Score Concurr Enrollm <u>Can</u> be taken to	ent Must be enrolled in this class		
☐ and ☐ or ☐ ☐ ☐ and ☐ or ☐ ☐ or ☐ ☐ or ☐ or ☐ ☐ or ☐ or ☐					
Level II (enforced by instructor of	on first day of class)				
	Course	Grade Test	Min. Score		
and or					
Enrollment restrictions (In add	ition to prerequisites, if applicable.)				
□and □or Consent required	□and ⊠or Admission Program: I	to program required BEW 252 Apprenticeship	□and □or Other (please specify):		
Please send syllabus for tran Conditionally approved courses Insert course number and title y					
E.M.U. as			as		
U of M as			as		
as	3		as		

Course	Course title		
EWA190	Transformers and Electrical Safety		
Course description State the purpose and content of the course. Please limit to 500 characters.	The student will learn about OSHA requirements on construction work sites and the proper selection of the proper personal protective equipment and clothing. Electrical safety culture will be discussed and related to transformers which are the most common source of electrical energy in any building. Arc fault current calculations will be presented as part of NFPA 70E requirements for determining safe approach distances for energized equipment. This course is taught at the IBEW local training center and is only open to apprentices accepted into a 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 successful completion of this course, the student will be able to: 1. Install and properly ground transformers 2. Determine transformer system configuration from voltage measurements 3. Explain lock-out / tag-out safety procedures 4. Identify what personal protective equipment should be worn when working on transformers	This course is assessed externally by the local's Joint Apprenticeship Training Committee (JATC), consisting of NECA representatives (industry) and IBEW 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. Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	(applicable in all sections)	Methods for determining level of student performance of objectives	
	Objectives and methods of evaluation follow the curriculum set out by the National Joint Apprentice Training Committee (NJATC).		

List all new resources needed for course, including library materials.

All resources for the pro gram are in place at the Local 252 Training Center.

Student Materials:

List examples of types	All books and supplies provided through the IBEW Local 252 Training Center.	Estimated costs
Texts		
Supplemental reading		\$ 0
Supplies		
Uniforms		
Equipment		
Tools		
Software		

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Equipment/Facilities: Check 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 & 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 Local 252 Training Center		

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
 Install and properly ground transformers Determine transformer system configuration from voltage measurements Explain lock-out / tag-out safety procedures Identify what personal protective equipment should be worn when working on transformers 	Contractors (employer) provide paper feedback forms for apprentice skill performance reviews. JATC contractor members provide specifications detailing technical updates.	Fall 2011 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.

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.