COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Numb	er and Title	Э									
Credit Hours	1										
Course Description	This course covers the National Electric C calculations, overcurrent protection, groun locations, electric welders, interpretation o licensure exam.	ding, conductors	s for general wiring, flexible co	ords, motors, motor controllers, motor c	rircuits, hazardous						
Prerequisite(s and/or Corequisite(s))										
	ooks/References/Course Materials: ide to the National Electric Code	7th	Charles R. Miller	Cengage Learning	1337101974						
General E	Education Outcomes										
	tten and verbal language to discuss and com guage, and information technology).	prehend informa	ation, incorporating a variety of	of technologies, such as text, data, and	images (written langua						
	nd interpret relevant information in order to formulate an opinion or conclusion (critical thinking).										
	rate and communicate computational method propriate) (quantitative literacy and fluency)		tical reasoning in a variety of	formats (using words, tables, graphs, n	nathematical equations,						
4 Communi	cate in appropriate ways with those who are	culturally divers	e (intercultural competence).								
	/D										
	/Department Outcomes										
1 Prepare	students to become safe and competent ele-	ctrical techniciar	ns.								
2 Provide	opportunities to display critical thinking skills.										
3 Demons	trate responsible professional conduct and b	ehavior									

Effectively communicate.

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	Course Outcomes (CO)	Bloom's Domain	Program/	Written	Verbal	Information	Critical	Quantitative	Intercultural
		for CO (C, A, P),	Department	Language	Language	Technology	Thinking	Literacy and	Competence
		Category, and Level	Outcome(s)					Fluency	
1	Comprehend the organization of the	C-Understanding (2)	1, 2, 3, 4	1	1	1	2	1	0
	NEC; mandatory rules, permissive								
	rules, and information; listed and								
	approved equipment; listings used in								
	approving installations; terms that								
	are specific to the NEC;								
2	Explain working space requirements;	C-Evaluating (5)	1, 2, 3, 4	1	1	1	1	1	0
	electrical equipment requirements								
	for branch circuits, feeders, and								
	services; requirements for service								
	equipment and conductors;								
	requirements for overcurrent								
	devices; junction and pull box sizing.								
3	Describe general installation of	C-Evaluating (5)	1, 2, 3, 4	1	1	1	1	1	0
	cables; raceways and conduits;								
	grounded conductors, equipment								
	grounding conductors, bonding								
	jumpers, and grounding electrode								
	conductors; requirements for								
	grounding or bonding.								
4	Describe provisions for one family	C-Evaluating (5)	1, 2, 3, 4	1	1	1	1	1	0
	dwellings, specific provisions;								
	multifamily dwellings.								
5	Describe specific wiring methods;	C-Evaluating (5)	1, 2, 3, 4	1	1	1	1	1	0
	overhead and underground services;								
	clearances; conductor size;								
	disconnecting means and								
	overcurrent devices; grounding;								
	panel boards.								
6	Compute voltage drops for single	C-Applying (3)	1, 2, 3, 4						
	phase and three phase installations;								
	load calculations; lighting loads;								
	overcurrent protection for motors; for								
	transformers; one family dwellings;								
	multifamily dwellings; commercial								
L	buildings.								
7									
8									
9									
10		 Bloom's Domain Legend		General Educ	ation Cut-				

Bloom's Domain Legend
C = Cognitive
A = Affective

P = Psychomotor

General Education Outcome Legend
2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable

0 = Not included

Approved:

May 2021 November 11, 2021 Reviewed: