MISSION STATEMENT AND STUDENT LEARNING OUTCOMES FOR:

Industrial Maintenance Mechanics

Review Year: 2024

Division:	Discipline/Program/Department:	Contact Person:
Technical Education	Industrial Maintenance Mechanics	**Bosworth, Mark**

Mission Statement

The Industrial Maintenance Mechanics program prepares students with the skills and experience necessary to enter the workforce as an entry-level mechanic in an industrial facility. Students will learn multiple disciplines which include machining, pipefitting, mechanical, welding and electricity. Industrial maintenance mechanics maintain and repair a variety of equipment used in many different plants such as steel mills, oil refineries, power plants, and food and beverages industries. Because factories and other facilities cannot afford to have machinery out of service for long periods, industrial maintenance mechanics are there to keep the equipment maintained and running.

Program/Discipline Curriculum Map

I = Introduce: Student is first exposed to the concept/idea and is requested to apply the concept in a limited scope.
E = Emphasize: Student applies concept(s) in varying/multiple situations of greater complexity than when initially introduced.
R = Reinforce: Student may be expected to understand the concept upon taking the course and utilizes the concept in conjunction with other concepts/ideas to solve problems.

Program/Discipline Outcomes	***Course Prefix and Number***																								
Graduates of this program or discipline shall be able to:	EET 101	EET 200	EET 235	EET 239	EET 241	EET 243	PMT 100	PMT 101	PMT 102	IDP 116	IDP 276	IML 119	IML 120	IML 125	IML 133	GT 104	EET 131	EET 232							
Maintain a safe, efficient work environment, work ethic, and respond appropriately to medical emergencies in all the fields.	I	E	E	R	R	R	I	E	R	I	I	I	R	I	I		R	R							
Demonstrate knowledge to wire industrial and residential wiring circuits and troubleshoot electrical systems.	I	E	E	R	R	R							R			I	R	R							
Produce a finished machine part using all manual machining equipment.							I	E	R				R			I									
Demonstrate how to perform all the requirements to set up a mechanical system.										R	E	I	R		I	I									
Demonstrate how to safely join carbon steel using gas metal arc welding in the down hand.														I		I									

Map Comments:

Core Competency Map

Core Competencies	***Course Prefix and Number***																								
Communication Skills	EET 101	EET 200	EET 235	EET 239	EET 241	EET 243	PMT 100	PMT 101	PMT 102	IDP 116	IDP 276	IML 119	IML 120	IML 125	IML 133	GT 104	EET 131	EET 232							
1. Computer Literacy	X																								
2. Oral Communications																									
3. Writing																									
Reasoning Skills																									
4. Critical Thinking															X										
5. Quantitative Literacy																									
Citizenship																									
6. Personal Accountability				X									X												
7. Civic And Social Accountability																									