# MISSION STATEMENT AND STUDENT LEARNING OUTCOMES FOR:

# Commercial Maintenance Mechanics

**Review Year:** 2024

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

## Mission Statement

The Commercial Maintenance Mechanics program prepares students with the skills and experience necessary to enter the workforce as entry-level technicians in a commercial facility. Students will learn multiple disciplines which include machining, pipefitting, construction, HVAR and electricity. Commercial maintenance mechanics maintain and repair a variety of equipment used in many different facilities such as hospitals, hotels, office buildings, schools and commercial businesses. Because commercial facilities cannot hire specialists for each trade, commercial maintenance technicians are hired to keep the facilities 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*** | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Graduates of this program or discipline shall be able to:** | EET 101 | EET 200 | EET 243 | EET 235 | HVAR 100* | HVAR 101* | HVAR 103* | HVAR 153* | HVAR 202* | HVAR 205* | IDP 116 | IML 119 | PMT 100 | PMT 101 | IML 120 | GT 104 | EET 131 | IML 133 | | | | | | | | |
| Maintain a safe, efficient work environment, work ethic, and respond appropriately to medical emergencies in all the fields of study. | I | E | R | E | I | I | E | E | E | R | I | R | I | E | R | R | R | R | | | | | | | | |
| Demonstrate knowledge to wire commercial and residential wiring circuits and troubleshoot electrical systems. | I | E | E | R | | | | | | | | | | | R | R | R | R | | | | | | | | |
| Demonstrate knowledge of a HVAR system in a commercial setting. | | | | | I | I | E | E | R | R | | | | | | | | | | | | | | | | |
| Produce a finished machine part using all manual machining equipment. | | | | | | | | | | | | | I | E | R | | | | | | | | | | | |
| Construct a piping system used in commercial application. | | | | | | | | | | I | E | | | | | | | | | | | | | | | |
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**Map Comments:**

*=these courses are taught and assessed by HVAR faculty. See the HVAR department's assessment results.

## Core Competency Map

| ***Core Competencies*** | ***Course Prefix and Number*** | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Communication Skills** | EET 101 | EET 200 | EET 243 | EET 235 | HVAR 100* | HVAR 101* | HVAR 103* | HVAR 153* | HVAR 202* | HVAR 205* | IDP 116 | IML 119 | PMT 100 | PMT 101 | IML 120 | GT 104 | EET 131 | IML 133 | | | | | | | | |
| 1. Computer Literacy | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Oral Communications | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Writing | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Reasoning Skills** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Critical Thinking | | | | | | X | | | | | | | | | | | | X | | | | | | | | |
| 5. Quantitative Literacy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Citizenship** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. Personal Accountability | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 7. Civic And Social Accountability | | | | | | | | | | | | | | | | | | | | | | | | | | |