# Industrial Maintenance Systems Course No. 13303 Credit: 0.5

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Automation Engineering Pathway (15.0406)**

****Prerequisites: 17101 – Fundamentals of Electricity****

 ****39302 -Hydraulics and Pneumatics or 39010 – Automated Integrated Systems I (either of these****

 ****may be taken concurrently along with 13303)****

Course Description: In this course students further enhance their understanding of manufacturing process and production with the focus on automation and industrial maintenance. Students will focus on monitoring and troubleshooting equipment and systems for routine, preventative, and predictive maintenance.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Click or tap here to enter text.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | The student will be able to use preventive maintenance methods to perform routine production equipment check/repairs |  |
| 1.2 | The student will be able to monitor production equipment indicators to ensure operating properly |  |
| 1.3 | The student will be able to perform housekeeping to maintain production schedules |  |
| 1.4 | The student will be able to identify potential maintenance issues with basic production systems |  |
| 1.5 | The student will be able to identify potential electrical system issues which will require maintenance personnel to correct |  |
| 1.6 | The student will be able to identify potential pneumatic system issues which will require maintenance personnel to correct |  |
| 1.7 | The student will be able to identify potential hydraulic system issues which will require maintenance personnel to correct |  |
| 1.8 | The student will be able to identify potential machine automation system issues which will require maintenance personnel to correct |  |
| 1.9 | The student will be able to identify potential lubrication processes issues which will require maintenance personnel to correct |  |
| 1.10 | The student will be able to identify potential bearings and coupling issues which will require maintenance personnel to correct |  |
| 1.11 | The student will be able to identify potential belt and chain drives issues which will require maintenance personnel to correct |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

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