Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

**DEPT. CMAE COURSE NUMBER: 1522**

**NUMBER OF CREDITS: 2 Lecture: 2 Lab: 0**

<table>
<thead>
<tr>
<th>Course Title:</th>
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<tr>
<td>Quality Practices</td>
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<tr>
<th>Catalog Description:</th>
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<tr>
<td>Introduces quality management systems and its components. This course is designed to align with the National Skills assessment and certification system for Maintenance Awareness. The course curriculum is based upon federally-endorsed national standards for production workers.</td>
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**FULFILLS MN TRANSFER CURRICULUM AREA(S)**

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:

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<tr>
<th>Prerequisites or Necessary Entry Skills/Knowledge:</th>
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<td>None</td>
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## Topics to be Covered

1. Quality management systems.
2. Internal audit of processes.
3. Continuous improvement.
4. Material inspection.
5. Corrective actions and preventive actions.
7. Control of non-conforming product.

## Student Learning Outcomes

1. Explain the basics of quality management systems.
2. Demonstrate testing and measuring for data collection.
3. Apply process control for quality assurance.
4. Apply key principles of continuous improvement.
5. Communicate quality problems.
6. Participate in internal audit activities.
7. Document test results and corrective actions to restore or maintain quality.

## Is this course part of a transfer pathway:  Yes ☐ No ☒

Revised Date: **05/2020**