COURSE INFORMATION FORM

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>CIMM</th>
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<tbody>
<tr>
<td>COURSE TITLE</td>
<td>Capstone – Surface Grinding</td>
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<tr>
<td>CR.HR</td>
<td>1</td>
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<td>LECT HR.</td>
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<td>LAB HR.</td>
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<td>CLIN/INTERN HR.</td>
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<td>CLOCK HR.</td>
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CATALOG DESCRIPTION
A student receives NIMS Level I Credential in Surface Grinding upon successful completion of the performance test and theory exam. NIMS documents the skills of the individual through the consortium developed skill standards.

PREREQUISITES
CIMM 100, 105 & 115

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Practice appropriate industrial machining safety.
2. Grind part to drawing specifications.
3. Grind angles to drawing specifications.
4. Grind slot to drawing specifications.
5. Grind fillet radii to drawing specifications.
7. Grind part perpendicular to drawing specifications.
8. Grind part parallel to drawing specifications.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Students will demonstrate the ability to apply foundational skills in an industrial setting, safely and to industry guidelines.
2. Students will think critically and apply problem-solving skills.
3. The program will graduate individuals who exhibit competence in the entry-level skills of technical profession machining and manufacturing.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

Exams: 1 – 9
Lab Projects: 1 - 9
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. National Institute for Metalworking Skills (NIMS)
   A. Overview
   B. NIMS registration
   C. NIMS special credentials
II. Performance evaluation procedures
III. Related theory, credentialing exam procedures
IV. Machine tool technology safety
V. Surface Grinding