# Course Outline

**Course Title:** Advance Maintenance Welding & Cutting  
**Submitted By:** Waldorf, Parker, Hill  
**Semester Course Prefix and Number:** IMT 2251  
**Approval Date:**  
**Old Quarter Course Prefix and Number:**  
**Revision Date:** 11-30-11  
**Number of Credits:** 3  
**Number of Lecture Credits:** 1  
**Number of Lab Credits:** 2  
**Number of Lab Hours:**  
**Number of Studio/Demonstration/Internship Credits:**  
**Class Size:** 35  
**Negotiated by AASC on:** (date)

## Course Purpose Code:
- **0** – Developmental Courses  
- **1** – Non-transferable, General Education  
- **2** – Technical course related to career programs  
- **3** – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)  
- **4** – Other college course not considered a part of general education (MNTC) (e.g. computer science, health, physical education)  
- **5** – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.  
- **9** – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

## Catalog Description:
This course applies advanced skills in oxyfuel burning, welding, and arc welding as used by maintenance person.

## Prerequisites and/or recommended entry skills/knowledge:
- **Course Prerequisite(s):** IMT 1251, IMT 1252  
- **Reading Prerequisite:**  
- **Composition Prerequisite:**  
- **Mathematics Prerequisite:**

## Career Programs and Transfer Majors Accessing this Course:

## Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:
(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer’s approval are required.)

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<th>0.</th>
<th>X</th>
<th>None</th>
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<th>The Humanities and Fine Arts</th>
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<td>Communications</td>
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<td>Critical Thinking</td>
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<td>Natural Sciences</td>
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<td>Ethical and Civic Responsibility</td>
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<td>5.</td>
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<td>History and the Social and Behavioral Sciences</td>
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## Learning Outcomes:
Including any relevant competencies listed in the Minnesota Transfer Curriculum)
Upon completion of this course, the student will be able to:

- Operate a cutting torch
- Weld in horizontal position - varied thickness and joints
- Weld in vertical position - varied thickness and joints
- Weld overhead - varied thickness and joints
- Fabricate and weld pressure vessel in fixed position

**Student Assessment Methods:**

Tests and hands-on performance

**Use of Instructional Technology:** (includes software, interactive video and other instructional technologies):

Videos

**Outline or Statement of Major Course Content:**

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Approvals:**

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<tr>
<th>Body</th>
<th>Representative Signatures</th>
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<tr>
<td>Curriculum Committee</td>
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<td>Faculty Association</td>
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**Distribution:** Original – Administrative Office

**Copies:** Curriculum Committee Chair, AASC Chair, Transfer Specialist, Originating Faculty Member, Scheduler, Records, Student Services, Learning Center, Library

**Revised:**