

MESABI RANGE COLLEGE

Course Outline

Course Title: Basic Maintenance Welding & Cutting I
Semester Course Prefix and Number: IMT 1251
Old Quarter Course Prefix and Number:

Submitted By: Waldorf
Approval Date:
Revision Date: 11-23-16

Number of Credits: 3 **Number of Lecture Credits:** 1
Semester(s) Offered: **Number of Lab Credits:** 2 **Number of Lab Hours:** 4
Class Size: 35 **Number of Studio/Demonstration/Internship Credits:**
Negotiated by AASC on:
(date)

Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable
- 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 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:

The main purpose of this course is to introduce the student to welding and flame cutting. The student will learn how to weld and flame cut as is used in industry. The student will also learn the match required to do welding and cutting. Also to allow the student the opportunity to learn and practice Arc and Oxy-Acetylene welding techniques as is often found in industry and required of a Maintenance Mechanics.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):
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. AASC review and the Chief Academic Officer's approval are required.)

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|--|--|
| 0. <input checked="" type="checkbox"/> None | 6. <input type="checkbox"/> The Humanities and Fine Arts |
| 1. <input type="checkbox"/> Communications | 7. <input type="checkbox"/> Human Diversity |
| 2. <input type="checkbox"/> Critical Thinking | 8. <input type="checkbox"/> Global Perspectives |
| 3. <input type="checkbox"/> Natural Sciences | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning | 10. <input type="checkbox"/> People and the Environment |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences | |

Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- Run continuous beads
- Oxy-acetylene welding/cutting safety
- Straight-line cutting
- 6010 single V-flat weld
- 6010 single V-vertical weld
- identify arc-welding safety

Student Assessment Methods:

Visual inspection of lab assignments

Tests/quizzes

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

video

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

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

Affiliated Mesabi Range College Courses and Programs:

Approvals:

Body	Representative Signatures	Date
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Instructional Services

Copies: Transfer Specialist, Originating Faculty Member, Records

Revised: December 2012