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Fall 9-2004

### HEO 146T.01: Safety and Basic Controls

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**THE UNIVERSITY OF MONTANA-MISSOULA  
COLLEGE OF TECHNOLOGY  
INDUSTRIAL TECHNOLOGY DEPARTMENT**

**COURSE SYLLABUS**

**COURSE NUMBER AND TITLE:** HEO146T SAFETY AND BASIC CONTROLS

**DATE REVISED:** Fall 2003

**SEMESTER CREDITS:** 5

**CONTACT HOURS PER SEMESTER:** 150

Lecture hours per week: 4

Lab hours per week: 8

Shop hours per week:8

**PREREQUISITES:** None

**INSTRUCTOR NAME:** Tim Lytle

**E-MAIL ADDRESS:** Tim.Lytle@mso.umt.edu

**PHONE NUMBER :** 406-243-7643

**OFFICE LOCATION :** West Campus 3639 South Avenue West

**OFFICE HOURS:** Regular Hours

**RELATIONSHIP TO PROGRAM:**

Safety and basic knowledge of heavy equipment operation are needed in the development of the students operating skills. This course is essential to assure that complete understanding of safe start-up, operation, and shut-down procedures of each piece of equipment are followed through out the program.

**COURSE DESCRIPTION:**

Orientation to the safe operation and basic control of crawler-tractors, scrapers, front end loaders, motor graders, backhoes, rollers, low-boys, dump trucks, and other heavy equipment. Sufficient time will be allowed for the development of basic machine operation skills.

**STUDENT PERFORMANCE OUTCOMES:**

Occupational Performance Objectives

Life-Long Learning Skill Codes\*  
[Include Code and Number]

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

- |  |  |
|--|--|
| 1. Interpret operators manuals for all pieces of equipment.                        | BSKL:1,2,4/THINK:6<br>INFO: 1                    |
| 2. Understand basic operating principles of each piece of equipment                | SYS: 1,2/TECH: 1,2,3/<br>BSKL: 1,2,4,5           |
| 3. Perform pre-operational procedures and understand the meaning of the procedure. | BSKL: 1,2,3/THINK: 2,3,6,<br>PQ: 1/RSRC: 1/IPS:5 |