

EML2322L – MAE Design and Manufacturing Laboratory

**LABORATORY SAFETY REVIEW (HW #4)**

Name: \_\_\_\_\_

Lab Period (i.e. W2-3): \_\_\_\_\_

Assigned Roster Number (i.e. XYZ): \_\_\_\_\_

Grader's Initials: \_\_\_\_\_

**Description:** This assignment reviews important safety for working in a manufacturing shop. Whether working in the MAE Student Shop on a future design project or being asked to modify or prototype parts for a project at in internship or in industry, knowledge of basic facility and equipment safety is essential for both your well-being, and so you can be trusted to work in the facility. The course webpage contains a list of mistakes commonly made when using the equipment:

<http://www2.mae.ufl.edu/designlab/Safety/Common%20Student%20Mistakes.pdf>

**Based on the information presented above, answer the following questions so you can avoid these mistakes. WORK INDIVIDUALLY TO ANSWER THESE QUESTIONS.** Ask the TAs or instructor to review material you don't understand. Messy work or answers not written on these assignment pages will be penalized 25%, as will submissions which omit the correct lab period and roster number on the cover page. Attach additional pages if necessary.

1. List four mistakes that can cause severe personal injury when working on the lathes:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_

2. List three mistakes that can cause severe personal injury when working on the mills:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_

3. List two mistakes that can cause severe personal injury when working on the drill presses:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

4. List ten mistakes that can cause personal injury when working with sheetmetal:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_
6. \_\_\_\_\_  
\_\_\_\_\_
7. \_\_\_\_\_  
\_\_\_\_\_
8. \_\_\_\_\_  
\_\_\_\_\_
9. \_\_\_\_\_  
\_\_\_\_\_
10. \_\_\_\_\_  
\_\_\_\_\_

5. Why must jewelry/watches/bracelets, loose fitting clothing, non-secured long hair and gloves **NEVER** be worn when operating powered machinery?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. YES / NO: Do you understand safety glasses must **ALWAYS** be worn **OVER YOUR EYES** (not on your head) any time you are in a manufacturing shop, regardless of what you are doing?

7. YES / NO: Do you understand you should debur **EVERY** metal workpiece cut in lab since each cut edge can be RAZOR sharp and cause serious injury?

8. YES / NO: Do you understand you should **NEVER** touch metal chips / shavings with your bare hands since each cut edge can be RAZOR sharp and cause serious injury?

9. YES / NO: Do you understand you should **NEVER** rush for any reason when working in a manufacturing facility (or when cleaning up in one)?