

Experiment Safety Sheet & Failure Mode Analysis (Required Prior to Operation)

Date: _____

Experiment: _____

Person(s) Completing this Checklist: _____

Scope of equipment covered by this checklist:

When operating this experiment, the following safety precautions are required ALL, SOME, or NONE, of the time:

_____ Closed toed shoes	_____ Restrain loose hair, clothing, and jewelry
_____ Single or double ear protection	_____ Safety glasses or face shield
_____ Partner in lab	_____ Gloves (chemical or thermal)

By checking the following boxes, I verify that I have evaluated the issue described and made appropriate safety adjustments:

Trip/fall and pinch/crush hazards have been identified, flagged, and mitigated where possible.

Notes: _____

Electrical wiring is: properly secured, off the floor, not daisy chained, and not exposed.

Notes: _____

Guards, fasteners, plumbing, and fixtures are tightened appropriately. All potential flight paths are not a risk to others in the vicinity.

Notes: _____

A Lock-Out Tag-Out (LOTO) system is required whenever someone is working on the experiment. The LOTO system for this experiment is:

All other safety notes for this experiment (can continue in spreadsheet on back): _____

Signatures of Persons Completing Checklist: _____

TA Approval: _____

ME 406 Safety Failure Mode Analysis (SFMA) (Required Prior to Operating All Experiments)

Use this spreadsheet to document potential safety hazards, and remedies with your experiment.

Potential Hazard→					
Potential Safety Failure Modes (ex. Pipe burst)					
Type of Danger (ex. Burns)					
Frequency of Risk (ex. Low)					
Magnitude of Risk (ex. High)					
Root Cause (ex. Improper fittings)					
Mitigation Strategy (ex. Preventative Maintenance, Personal Protective Ware, etc.)					
Recommendations for Remediation (ex. New fittings)					
Lock-Out Tag-Out (LOTO) (ex. Red tape valves)					