



Employee Health & Safety Risk

From Art to Audit

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Today's Discussion Points

EHS & Common Risks Using a Lessons Learned Approach Internal Review

What Does EHS Do Anyway?

- Safety Meetings & Training
- Safety Programs
- Policies & Procedures
- Goal Setting
- Advising Leadership
- Reviewing Incident Reports
- Incident Investigations

- Faculty & Staff Advisement
- Chemical Disposal
- Regulatory Compliance Activities
- Safety Inspections
- Safety Equipment Procurement
- Contractor Management
- Emergency Response

... as a start

Common Risk Areas



Walking Surfaces



Science & Mechanical Labs



Art Classes



Mechanical/Storage Rooms



Chemical Storage



Contractors



Walking Surfaces

MARSH SERIOUS EVENTS IN HIGHER EDUCATION REPORT - 2022

Year	Incident	Settlement
2020	Claimant fell due to defective conditions – uneven grate	Settled for \$160,000 in 2021
2018	Fall on broken sidewalk	Settled for \$160,000 in 2021
2017	Fall on defective sidewalk	Settled for \$375,000 in 2020
2017	Claimant slipped in 100% leased building	Settled for \$125,000 in 2020



Science & Mechanical Labs

- Thea Ekins-Coward lost one of her arms in a hydrogen-oxygen gas mixture explosion at the University of Hawaii at Manoa in 2016.
- Postdoctoral researcher Meng Xiangjian died in a hydrogen explosion at Tsinghua University in 2015.
- Graduate student Preston Brown lost three fingers and damaged his eyes in a nickel hydrazine perchlorate explosion at Texas Tech University in 2010.

Lab Hazards

- Fire & Explosions
- Chemicals
- Equipment, Especially Powered Equipment
- Electrical Hazards
- Lifting
- Radiation
- Lasers
- Sharp Objects & Glass





"The fire is at the Chief's house!"

Art Class Hazards

- Chemicals
- Equipment
- Electrical Hazards
- Fire
- Repetitive Motion
- Lifting
- Radiation



All Labs

EHS	Faculty	Students
 Assist in hazard assessments Provide guidance on policies, procedures and training Evaluate chemicals as requested Conduct assessments Assist in emergency situations 	 Identify and work to mitigate risks as they arise Ensure students complete safety training Assure students understand the hazards of the chemicals, equipment and practices used Explain and reinforce safe practices and procedures, acting as a safety role model Provide appropriate equipment and supplies Monitor students to ensure they work safely 	 Successfully complete training Follow procedures and practices Alert faculty of any issues Report all accidents, near misses, and potential chemical exposures



Mechanical/Storage Rooms



Mechanical/Storage Room Hazards

- Equipment, Especially Powered Equipment
- Chemicals
- Bad Housekeeping
- Storage Issues
- Fire
- Electrical Hazards
- Lifting
- Lockout/Tagout Issues
- Slippery Floors



Chemical Storage



Chemical Storage Hazards

- Fire & Explosions
- Leaking Containers
- Unsecured Cylinders
- Lifting
- Unlabeled Containers
- Incompatible Chemicals Stored Together
- Damaged or Rusted Containers
- No/Damaged PPE
- More Chemicals Than Needed

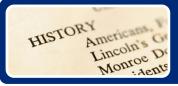




Loss History



Reference Checks



Prior History on Your Campus



Contractor's Safety Program



OSHA OSHA Compliance History

Using a Lessons Learned Approach – 5 Whys

There was water on the floor from snow brought in on boots which melted Floor grate at entrance didn't capture the snow from boots Floor grate is full of dirt and debris Floor grates aren't being cleaned as often as needed Staffing shortage reduced cleaning schedule

Now, what will be done to prevent the next fall?

Contractor's - OSHA's Stance on "Host Employers" & Contractors

When employees of an outside contractor come onto your campus, both your organization (what the OSHA calls the "host" employer) and the contractor share responsibility for the safety of the contractor's employees. The dividing line between areas of responsibility is not always clear, but consider the following "rule of thumb" as a starting point:

- 1. The contractor is responsible for making sure that its employees know how to do their jobs safety.
- 2. The host employer is responsible for informing the contractor of any hazardous conditions that are specific to the host's workplace and stipulating any special controls or work practices that the contractor must follow to protect all workers.

Contractors - Avoid Multi-Employer Duty Issues

More than one employer can be cited by OSHA on construction sites. As the owner, the institution needs to be sure they did not:

- Create the hazard
- Expose institution employees to the hazard
- Assume responsibility for correcting the hazard
- Control non-institution employees on the site



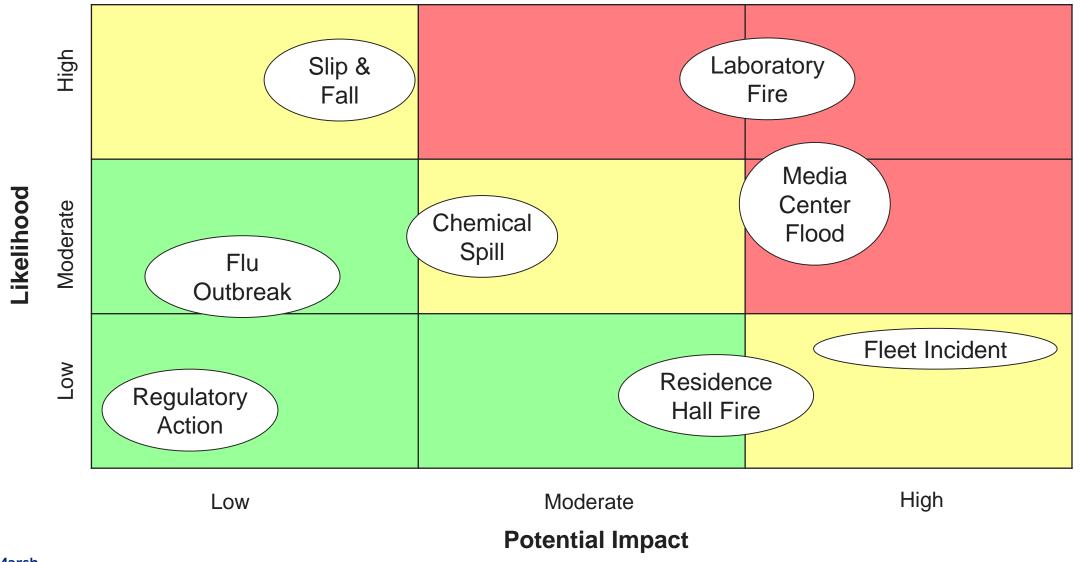
Using a Lessons Learned Approach – Lessons From Losses



M.U.S.I.C. lessons from losses, available on the M.U.S.I.C. website

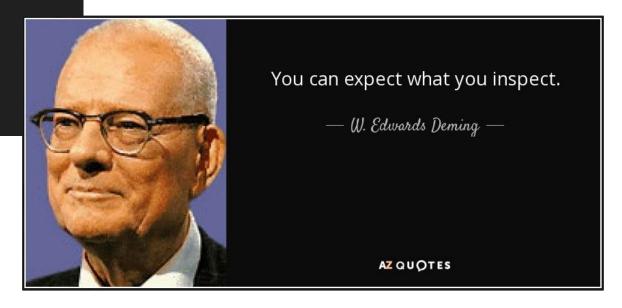


Internal Review – Risk Mapping



Internal Review – Assessments

- ✓ Comprehensive audits
- ✓ Scored to see trends and identify problem areas
- ✓ Response to recommendations tracked to completion
- ✓ Department self-assessment



EHS Support

EHS must have a seat at the table.

Good communication is key, especially wit RM, peers, regulators, and external stakeholders.

Identifying and prioritizing EH&S issues, developing practical solutions. Persistence and patience pays off.

Ensure others know noncompliance can have shortand long-term impacts.

Resources

- Jyllian Kensley,10 Years After Sheri Sangji's Death, are Academic Labs Any Safer?, c&en, <u>10 years after</u>
 <u>Sheri Sangji's death, are academic labs any safer? (acs.org)</u>, December 28, 2018
- Marsh Serious Events in Higher Education 2022
- M.U.S.I.C. Quarterly Closed Claim Lessons from Losses Bulletin, M.U.S.I.C. SharePoint Site
- N1926.16 OSHA Safety and Health Regulations for Construction Rules of construction. | Occupational Safety and Health Administration (osha.gov)
- National Safety Council Keeping Contractors Safe, <u>Five Ways to Keep Contractors Safe -- Occupational Health & Safety (ohsonline.com)</u>
- United Educators Large Loss Report 2020, <u>UE Large Loss Report 2020</u>
- Thomas Ouimet, CIH, CSP, Safety Guide for Art Students, United Educators, <u>Safety Guide for Art Studios</u> (<u>uncsa.edu</u>), 2000.





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