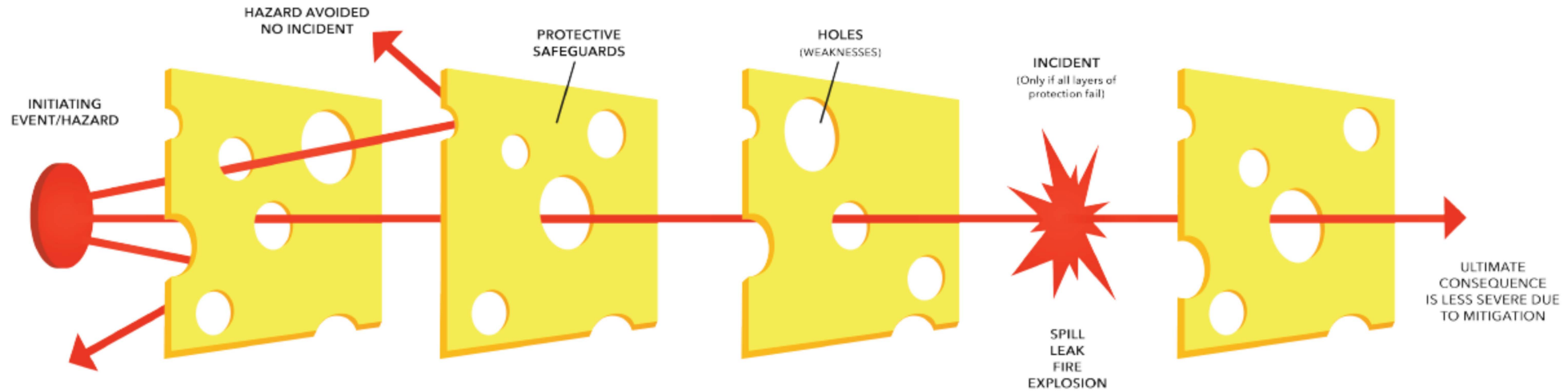


PROCESS SAFETY

Expect the Unexpected. Assess Your Risks. Prevent Incidents.



Engineering Controls

- Safer Design
- Instrumentation in Protective Systems
- Isolation of Hazardous Energy (Lockout/Tagout)

Administrative Controls

- Safe Lab Procedures
- Chemical Hygiene Plan
- Job Safety Analysis
- Management of Change
- Safe Work Practices

Behavioral Controls

- Use Personal Protective Equipment (PPE)
- Use the Right Tools
- Use Stop-Work Authority
- Follow Lab Procedures

Post-Incident Mitigation

- Emergency Response Plan
- Fire Suppression
- Safe Work Practices

* Adapted from the Swiss Cheese Model originally developed by James Reason

Michigan Tech is an EOE, which includes protected veterans and individuals with disabilities. 34713/052018

To learn more about Process Safety visit:
mtu.edu/process-safety



What is Process Safety?

Process Safety is about understanding hazards and risk, managing risk by providing the appropriate layers of protection to reduce the frequency and severity of incidents, and learning from incidents when they happen.

How can you help?

Questions to ask yourself

- What can go wrong?
- How bad can it be?
- How often might it happen?
- Are the proper safeguards in place?
- How can I better manage this risk?

Behaviors to practice

- Use PPE
- Use the right tools
- Use stop-work authority
- Follow lab procedures

Avoid the consequences

- Personal injury
- Loss of life
- Contamination of air, water, or soil
- Loss of property

Report concerns

- Contact instructor or lab supervisor
- Contact department chair
- Contact EHS:
Email ehs@mtu.edu or
call 906-487-2118

Process Safety is a team effort!



**Michigan
Technological
University**