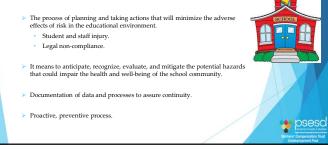


**O**BJECTIVES

- > Overview of Risk Management in Schools
- $\,\,{>}\,\,$  Overview of top 5 most problematic Safety and Environmental Health areas:
  - · Trips, Falls (JG)
  - · Lighting Regulations and Assessments (JG)
  - Fall Protection (SL)
  - · Hearing Conservation (SL)
  - · Chemical Hazard Communication (EJ)

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# WHAT IS RISK MANAGEMENT IN SCHOOLS?



# BENEFITS OF RISK MANAGEMENT

- > Protects staff and students from harm.
- > Reduces potential losses in revenue.
- > Safeguards the district's public reputation.
- > Makes your students, teachers, and parents feel safe.
- > Supports the continuity of quality education.
- > Limits the possibility of a lawsuits.



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## STEP 1 & 2: ID AND ASSESS RISK

- Safety and Health Core Rules: <u>Chapter 296-800 WAC</u>: Employer and employee responsibilities

  Employer responsibility: "Employer must establish, supervise, and enforce rules that lead to a safe and healthy work environment that are effective in practice."
- $Employee\ responsibilities:\ collaborate,\ coordinate,\ study,\ follow\ safety\ guidance,\ etc.$
- Accident Prevention Program
- Job Hazard Analysis (JHA): "A qualified person must perform a job hazard analysis ... to determine the safeguards and personal protective equipment that must be used for each job." WCT/UP recorded training.





## SAFETY & HEALTH AREAS / SUBJECTS

- > Slips, trips and falls.
- > Lifting heavy objects.
- Awkward positions, rotation, lifting above head, reaching.
- Repetitive motion.
- Extended standing.
- Dangerous machinery cuts, scrapes.
- Electric safety, running cords, fans, water and electricity.
- Chemical safety.
- > Etc.



> Crowded workspaces, blocking exits.

psesc

- Heat and burns.
- Fatigue and stress.
- Ladders.
- Fire safety.
- Walk-in freezers.
- Cleaning and disinfection.
   IAQ and exhaust system.
- > Housekeeping.
- > Etc.

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# SLIPS, TRIPS, FALLS

In the last ten years, the PSWCT has experienced 4,897 slip, trip, and fall claims resulting in incurred costs of approximately \$43 million. The average cost per claim is \$8,905.

Nationwide, in 2020, 42,114 people died in falls at home and at work, according to the Centers for Disease Control (2022).





# REAL WORLD EXAMPLE Slip: Too little friction or traction between feet (footwear) and walking/working surface, resulting in loss of balance. Possible Root Cause: Improper chemical storage.

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# REAL WORLD EXAMPLE Trip: > Foot or lower leg hits object and upper body continues moving, resulting in loss of balance. > Stepping down to lower surface and losing balance. Possible Root Cause: Improper housekeeping practices.

# REAL WORLD EXAMPLE

## Two types of Falls

Fall at same level:
Fall to same walking or working surface, or fall into or against objects above same surface

Fall to lower level:
 Fall to level below walking or working surface

Possible Root Cause: Improper use of tools and equipment.



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# **ACTION ITEMS**

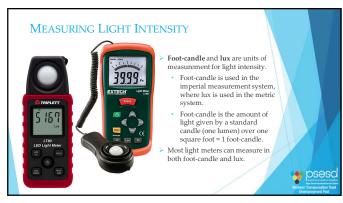
- Engage your staff to share their safety concerns and seek their input when developing solutions.
- Provide anti-fog wipes to employees who use eye or safety glasses to perform work.
- Update the Footwear Use Policy to require non-slip shoes for certain job tasks or work groups.
- Implement a Handrail Use Policy to require when a handrail is available on a step, incline or similar, it must be used to maintain three points of contact (two feet and one hand).
  - If your hands are too full to use the handrail use an alternate route such as an elevator or use a cart/dolly/backpack to carry your materials.

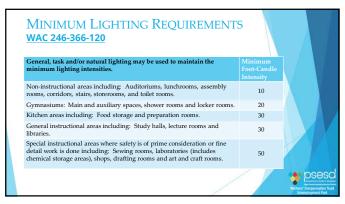


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# LIGHTING ASSESSMENTS

- > Take measurements as close to the task or
- Note any natural light sources or lack thereof.

  Note any natural light sources or lack thereof.

  Weather conditions may affect ambient lighting.
- Lighting may present a fire hazard due to heat transfer or electrical spark. LED lights produce minimal heat.
- Excessive brightness and glare shall be avoided to reduce eye strain.

   K-12 DOH Health and Safety Guide provides a lighting assessment checklist on page 26.



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# EXIT LIGHTING

- ➤ Exit routes and emergency planning are covered in <u>WAC 296-</u> 00-310 and CFR 1910
- > Each exit sign must be illuminated to a surface value of at least five foot-candles (54 lux).
- > Provide at least two unobstructed access to exit routes of adequate size and location.
- > Illuminate each exit route adequately and reliably.
  - Most exit lights have an internal battery for use when building power is interrupted.



# PCB LIGHTING SOURCES & HEALTH EFFECTS

- Polychlorinated biphenyls (PCBs) used as a coolant or lubricant in electrical equipment, paint, and plastics, among other products.
- PCBs don't break down easily in the environment and may remain there for very long periods of time. PCBs can contaminate air, soil, and water.
- > Health risks of exposure include liver damage and skin irritation
  - Health effects can be passed from mother to child.
- > Blood tests are used to confirm exposure.



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# FLUORESCENT LIGHT BALLAST REPLACEMENT FUNDING

- The Washington State Departments of Health and the State Department of Ecology are engaged in a program to find and replace old fluorescent lighting that could contain PCBs.
- They are offering reimbursement vouchers worth up to \$10K to offset the costs of light fixture replacement and waste disposal in schools.

Apply for financial assistance here:

Fluorescent Light Ballast Replacement Application (wa.gov)

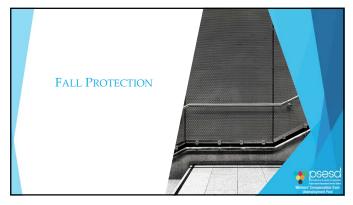


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# IDENTIFICATION AND DISPOSAL OF PCBs

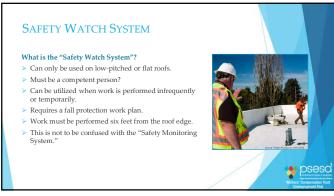
- Use the <u>PCB Information and Reference Fact Sheet</u> to identify PCBs at home and work.
- > Any FLBs manufactured before July 2, 1979, may contain PCBs.
- Any FLBs marked with the statement "This equipment contains PCB Capacitor(s)."
- Outsourcing the risk of PCB exposure is usually the most effect risk management strategy.
  - Hire a contractor who is familiar with the removal and disposal of this hazardous chemical.
- Contents are typically destroyed by incineration or hazardous waste landfill burial.

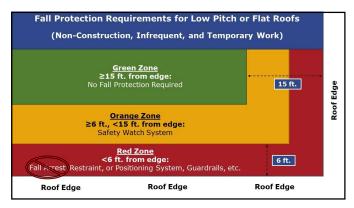


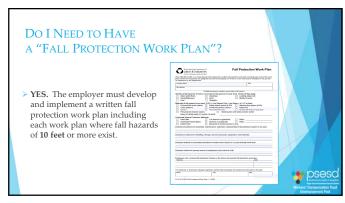


# THE "NEW" - UNIFIED STANDARDS FOR FALL PROTECTION EFFECTIVE NOVEMBER 1, 2022 Why? > Combined standards for new construction and defined post construction fall hazards. > Provided clarity on when a fall protection plan is required and when it is not! What changed? > Included a provision when no fall protection is required. > Provided a handy Quick Reference Guide that explains common fall hazards and the threshold heights. > Clarified language regarding when you can use the "safety watch system" > Added clarifying language and situations on when you can apply the "fall protection exemption."

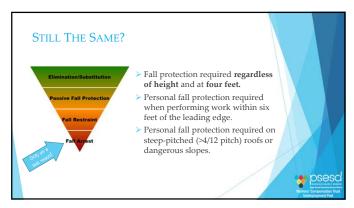














# HEARING CONSERVATION - ONSITE AUDIOGRAM PROGRAM UPDATE > All Trust districts are participating? > Participation for Music/Shop Teachers is increasing! Additional testing appointments available for medium and large districts with approval. > What about new hire employees and baseline testing? > What do I need to do when an employee's test results show a standard threshold shift? > What are hearing protection audits? > Are audiograms required or voluntary for employees?

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# WHERE ARE THE HAZCHEMS IN SCHOOLS?

- > Science laboratories.
- > CTE technical education (woodwork, > Food services. welding, 3D printing, aerospace, nursing, agricultural & veterinary programs.
- > Art activities (photography, printing, painting, glass, pottery, glass etching, jewelry making, etc.). > Restrooms, lockers.
- > District maintenance & transportation.
- Custodial supplies.

- > Health rooms.
- Offices (printers, copiers, laminators).
- Pools.

- > Construction, renovation.



# WHAT ARE THE HAZARDS?

- ➤ Unstable/Explosive
- > Flammable or combustible
- ➤ Highly reactive (with water, air, organics, etc.)
- Toxic (acute and/or chronic toxicity; target organ toxins, carcinogens)
- Corrosives
- ➤ Irritants, sensitizers

Reference: WAC Chapter 296-828



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# WHAT CAN HAPPEN IF HAZCHEMS ARE MISMANAGED?

- >Accidents: Burns, fire, inhalation of toxins.
- Long term chemical exposure & chronic illnesses.
- > Aggravation of pre-existing health conditions.
- Damage to buildings, sewers and equipment.
- L&I non-compliance and associated CO\$\$T.

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# SAFETY EQUIPMENT AND PPE

- > Emergency washing stations
- ➤ Ventilation
- ➤ Fire protection
- ➤ Spill kits
- ➤ Goggles, gloves, aprons
- >Appropriate clothing
- ➤ First aid kit



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# GENERAL RULES FOR SAFE CHEMICAL USE

- > Read up on hazards <u>BEFORE</u> purchase.
- > Always choose the lowest hazard and smallest amount.
- Always minimize exposure by all routes (inhalation, skin, ingestion, injection).
- > Have written safety procedures and train exposed employees.
- > Always read the labels and the SDS first and follow the precautions.
- $\,{}^{\triangleright}$  Have appropriate safety equipment and PPE.
- > Properly dispose of the accumulated hazardous wastes.

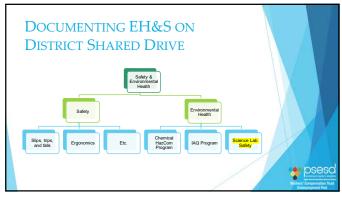


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## TAKE-AWAY ACTION ITEMS

- $\,{\blacktriangleright}\,$  List district departments and programs that use HazChems.
- $\succ$  Check the Chemical Hazard Communication Plan and update.
- > Cleanout and proper disposal of hazardous wastes.
- $\,{\blacktriangleright}\,$  Pre-plan purchases, reduce chemical stock.
- > Mandate training for all employees who may be exposed to HazChems.
- PROACTIVE PLANNING: Are the room, the activity, the equipment, the training of staff, and the age of students a good match?















# YN0 [@Tif Litt] - Hi Ms. Tif! Can we please add the Tim Reeve flyer after this slide? Thank you! Yzabel Nelson, 2023-06-20T23:26:20.462

# TL0 0 Done:)

Tif Litt, 2023-06-21T16:47:03.584





