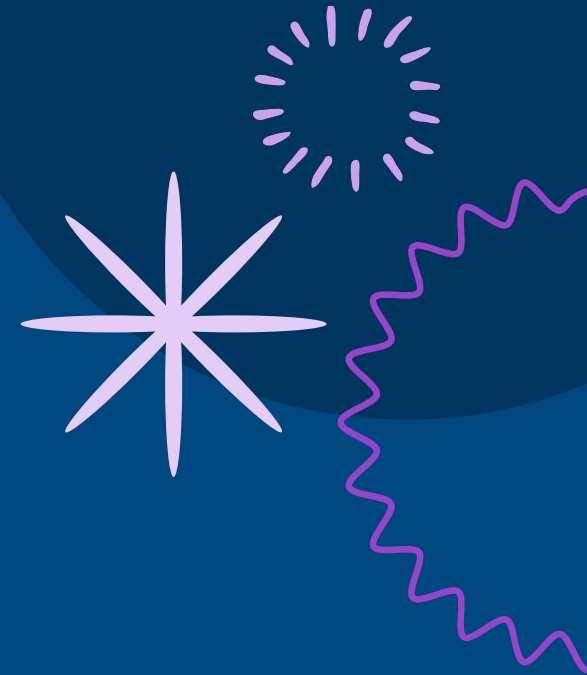




RISK MANAGEMENT FOR TECHNOLOGY EDUCATION TEACHERS



RENEE ANDRES

Risk Improvement Manager for EMC Insurance

15+ years with school safety

Not a teacher

Not a lawyer

ISSUES

Injuries

Compliance

Negligence

Personal Responsibility

YOUR PROTECTIONS

WI State Statues

- Wisconsin Statute 893.80, Governmental Immunity

Liability Insurance Coverage

- Insurance company defense when performing your assigned duties for the school district

Compliance with Standards

- OSHA
- NFPA
- ANSI
- EPA
- Uniform Building Code
- Life Safety Code

WI STATUTE 893.80 – PARAPHRASED.....

A public entity is immune from suit and cannot be sued for the negligence of an employee unless the plaintiff shows either:

1. The School District or employee violated a ministerial duty imposed by law
2. There was a known danger that created a duty to act on the part of the School District

PUBLIC EMPLOYEE SAFETY AND HEALTH

Wisconsin Statutes section 101.055 requires the Wisconsin Department of Safety and Professional Services (DSPS) to adopt and enforce safety and health standards that will provide protection to public employees at least equal to that provided to private sector employees under standards promulgated by Federal Occupational Safety and Health Administration (OSHA).

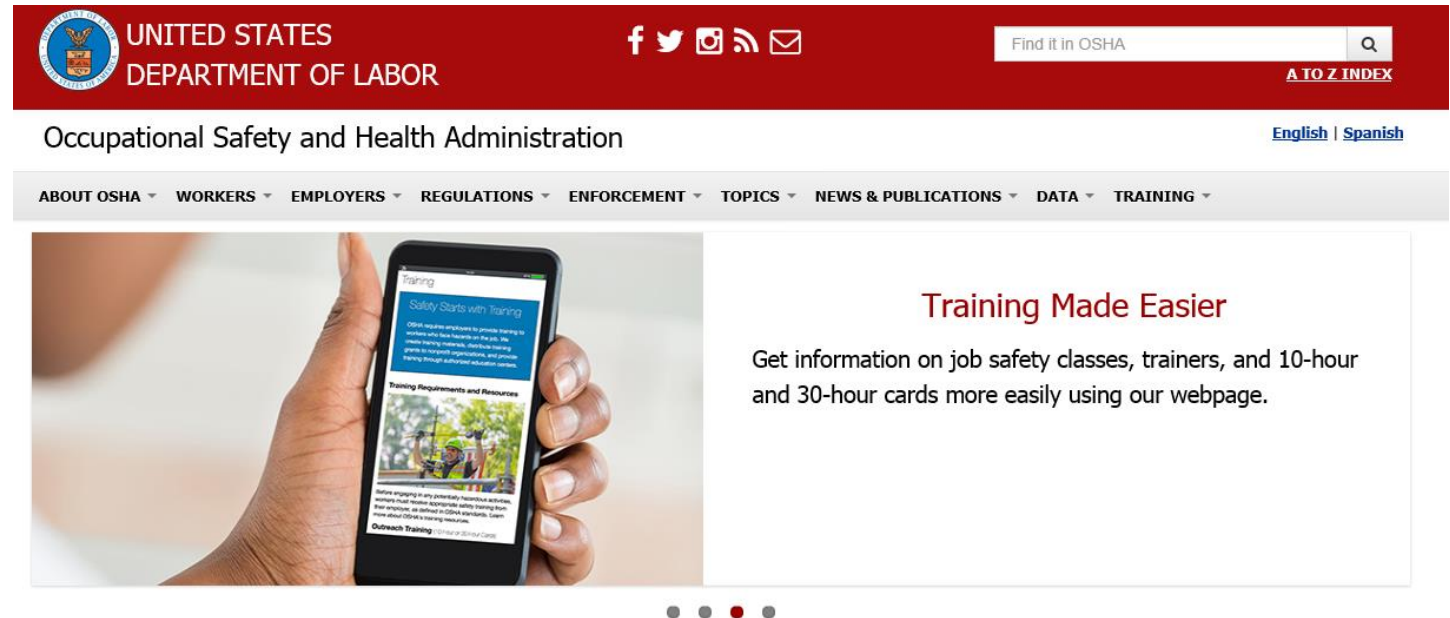
SPS 332.15, SPS 332.16 and SPS 332.50 reference the codes that are applicable to public sector employers and employees. These codes were recently updated to incorporate the 2010 version of the Occupational Safety and Health Administration (OSHA) regulations.

OSHA REGULATIONS

Code of Federal Regulations (CFR)

29 Part 1910

<https://www.osha.gov/>



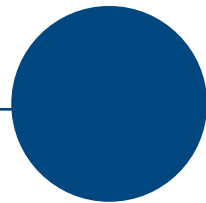
The screenshot shows the top portion of the OSHA website. At the top is a red navigation bar with the United States Department of Labor logo and name on the left, social media icons (Facebook, Twitter, Instagram, RSS, Email) in the center, and a search bar on the right with the text "Find it in OSHA" and a magnifying glass icon. Below the search bar is a link for "A TO Z INDEX". Underneath the red bar is a white bar with the text "Occupational Safety and Health Administration" and links for "English" and "Spanish". Below this is a grey navigation bar with dropdown menus for "ABOUT OSHA", "WORKERS", "EMPLOYERS", "REGULATIONS", "ENFORCEMENT", "TOPICS", "NEWS & PUBLICATIONS", "DATA", and "TRAINING". The main content area features a banner with a hand holding a smartphone displaying the OSHA training page. To the right of the phone, the text reads "Training Made Easier" in red, followed by "Get information on job safety classes, trainers, and 10-hour and 30-hour cards more easily using our webpage." Below the banner are four small grey dots, with the third one from the left being red, indicating the current slide in a carousel.



SHOP SAFETY ISSUES

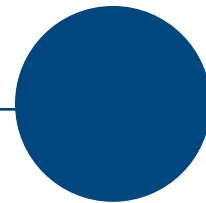
- Injury Prevention
- Fire Prevention
- Liability

INJURY PREVENTION



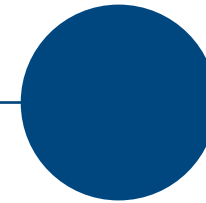
WHO?

- Students
- Staff
- Visitors



HOW?

- Equipment/machines/tools
- Electricity
- Hazardous substances



WHAT?

- Cuts/Amputations
- Objects in eyes
- Bruises
- Burns
- Electric shock
- Chemical exposures
- Fractures
- Strains/sprains
- Hearing loss

SHOP SAFETY BEST PRACTICES

Machine guarding and lockout

- Fully understand your shop equipment; safe operation, guarding, maintenance
- Maintain the equipment that will be used
- Keep guards in place and functional
- Lockout when guards must be removed or point of operation must be accessed
- Make sure long hair is tied back and no long, loose sleeves or jewelry
- Non-slip flooring around equipment



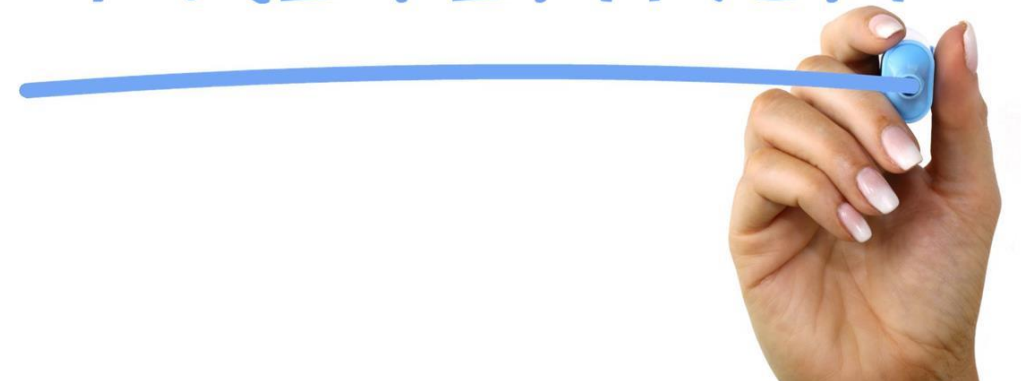
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SHOP SAFETY BEST PRACTICES

Hazard communication and training

- Set expectations and enforce them
- Develop equipment specific training
- Post equipment specific instructions
- Implement equipment proficiency testing
- Appropriately mark all secondary chemical containers
- Be familiar with basic first aid

INJURY
PREVENTION



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SHOP SAFETY BEST PRACTICES

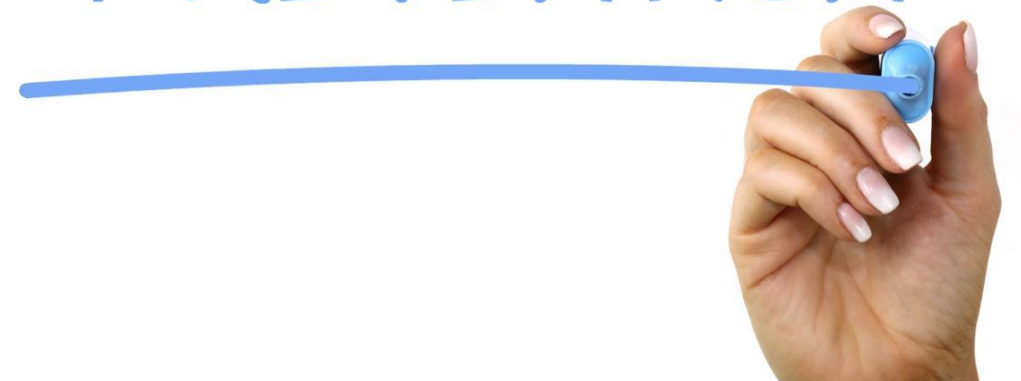
Fall protection and guardrails

- Make sure guardrails are in place on any mezzanines or on scaffold

Ladder safety

- Inspect ladders before use
- Provide instruction on safe use

INJURY
PREVENTION



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SHOP SAFETY BEST PRACTICES

Personal protective equipment

- Require appropriate personal protective equipment at all times

Housekeeping and storage

- Require tool pickup and room cleaning after each class period
- Keep cords, hoses and debris off the floor
- Use good storage practices



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SHOP SAFETY BEST PRACTICES

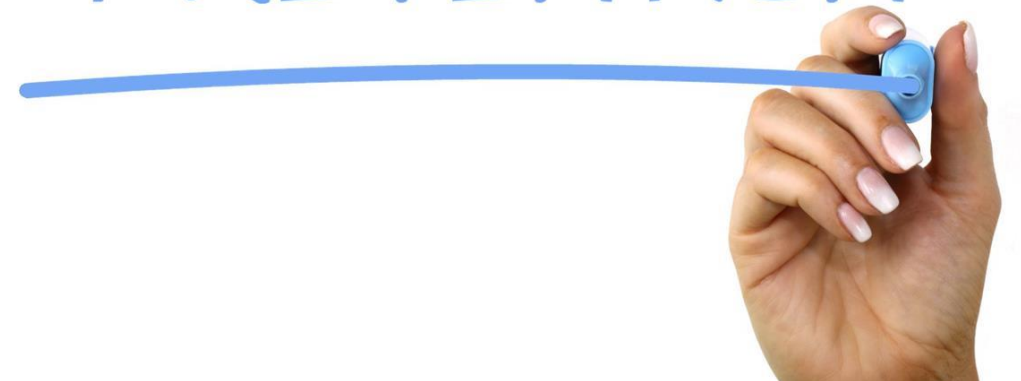
Ventilation and dust collection

- Welding/cutting or applying finishes should only be done with adequate ventilation
- Make sure all woodworking equipment is connected to dust collection

Inspection and maintenance

- Regularly inspect all tools and equipment
- Take damaged equipment out of service until it can be repaired

INJURY
PREVENTION



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SHOP SAFETY BEST PRACTICES

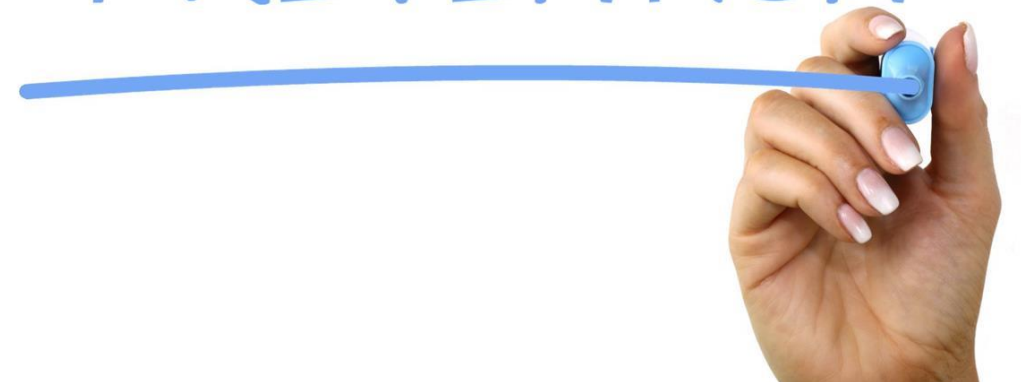
Electrical Safety

- Inspect all corded equipment and cords regularly
- Don't use electrical cords if they are damaged
- Don't daisy-chain extension cords

Other

- Students should wear appropriate footwear – no open-toed shoes
- Don't leave machines running unattended
- No horseplay

INJURY
PREVENTION



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INJURY PREVENTION AND SAFETY RESOURCES

OSHA

Small Business Handbook

<https://www.osha.gov/Publications/smallbusiness/small-business.html#general>

Your School District's Insurance Provider

<https://www.emcins.com/lossControl/>

State of Wisconsin Department of Safety and Professional Services (DSPS)

<https://dsps.wi.gov/Pages/Programs/PublicSafety/Default.aspx>

YouTube

<https://www.youtube.com/watch?v=HshsU3aYWsq>

FIRE PREVENTION

Even “small” fires can cause injuries and damages that leave parts of the building unusable.

FIRE PREVENTION BEST PRACTICES

Flammable/combustible materials

- Control amounts of flammable and combustible materials in shop
- Apply finish materials only where appropriate ventilation is provided
- Store flammable and combustible paints, solvents, lubricants, aerosols in flammable liquids storage cabinets



Equipment

- Regularly inspect equipment and maintain as needed.

FIRE PREVENTION BEST PRACTICES

Housekeeping

- Provide appropriate soiled rag bins and empty daily
- Provide appropriate storage for weld gasses
- Housekeeping in welding, cutting brazing areas

Electrical safety

- Extension cords inspected and undamaged
- Don't overload electrical circuits
- Don't block electrical service panels



FIRE PREVENTION BEST PRACTICES

Be prepared for emergencies

- Don't block emergency exits
- Be familiar with how to contact emergency services
- Make sure appropriately mounted and charged fire extinguishers are present
- Never disable fire detection or suppression equipment



FIRE SAFETY RESOURCES

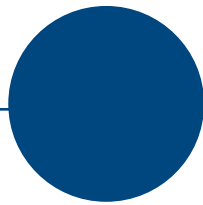


National Fire Protection Association (NFPA)

<https://www.nfpa.org/Codes-and-Standards>

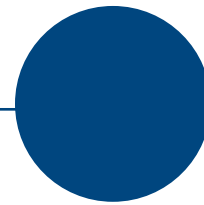
Your Local Fire Department

GENERAL LIABILITY



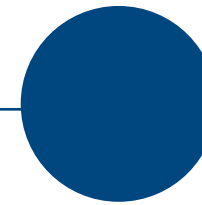
WHO?

- Students
- Contractors
- Visitors



WHAT DAMAGES?

- Bodily injury.
- Pain and suffering
- Property damage



HOW TO PREVENT?

- Appropriate shop management
- Supervision
- Project selection
- Quality control

LIABILITY PREVENTION BEST PRACTICES

- Develop, implement and document safety training and proficiency testing
- Inspect equipment on a regular and frequent basis
- Document all inspections and equipment issues and repairs
- Remove damaged equipment from service
- Develop appropriate supervisory controls – keep the shop rooms locked when no teacher is present
- Don't allow students to use shops or equipment without staff members or appropriate school sponsored representation present
- Other activities may need to be planned when a substitute teacher is present

LIABILITY PREVENTION BEST PRACTICES

- Other activities may need to be planned when a substitute teacher is present
- Develop curriculum and seek appropriate approval for all projects
- Make sure curriculum is age and experience-appropriate
- Minimize sale of any manufactured products
- Avoid these projects: tree hunting stands, jack stands, weapons of any type, trailer hitches, work on any mechanical safety device, vehicle frame repair, motorized vehicle building or modification

LIABILITY RESOURCES

Your School District's Insurance Provider or
Local Insurance Agent

Your School Board

Your School District's Legal Counsel

WHAT'S THE HAZARD?



WHAT'S THE HAZARD?



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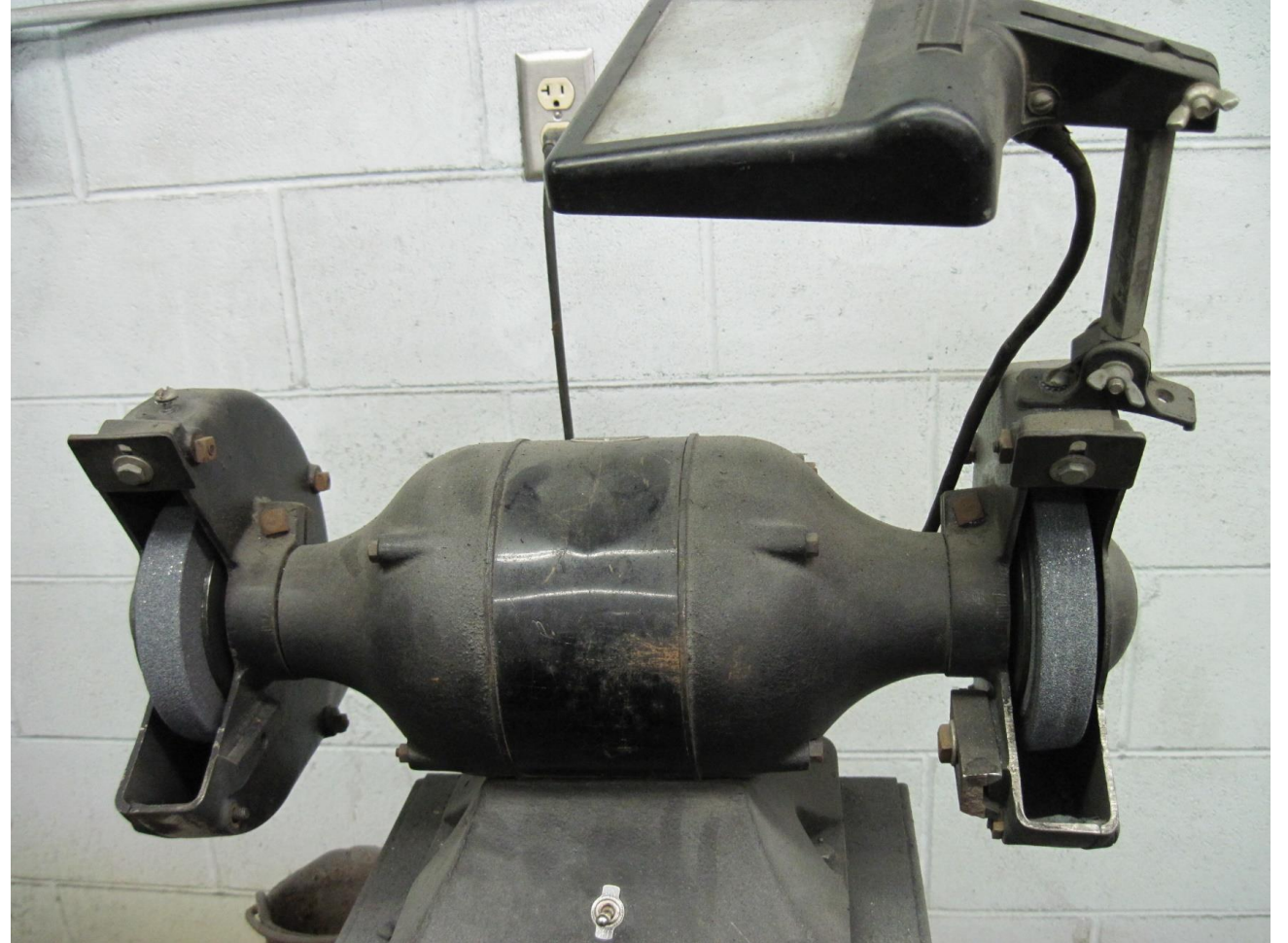
WHAT'S THE HAZARD?



WHAT'S THE HAZARD?



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WHAT'S THE HAZARD?



WHAT'S THE HAZARD?



WHAT'S THE HAZARD?



QUESTIONS?



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