

ENGINEERING WORKSHOP

Safety Measures In Workshop



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What is Workshop?

Workshop is a physical space where products are created or repaired.



PURPOSE



Provide a space for engineers to apply theoretical knowledge to practical applications

Activities

- Design and build prototypes
- Test and refine designs
- Learn and practice using engineering tools and machinery
- Develop practical engineering skills



PRACTICAL SKILLS



BENEFITS

What are the benefits we gain?

- Bridge the gap between theory and practice
- Enhance creativity and problem-solving skills
- Improve teamwork and communication abilities
- Prepare engineers for the workforce



Introduction to Workshop Accidents

Workshops are dynamic environments where various accidents can occur.

Understanding the potential risks and hazards is essential for creating a safe and productive workspace.



Common Types of Workshop Accidents

Slips and Falls

Uneven surfaces or spills can lead to slips and falls, causing injuries.

Struck-By Accidents

These occur when workers are struck by objects or vehicles.

Caught-In/Between

Workers can get caught in or between heavy machinery or equipment.

SAFETY

- Safety is the condition of being protected from or unlikely to cause danger, risk, or injury.
- No safety means
 - No guarantee of accomplishing the work
 - No absence of danger
 - No protection to you as well as your surrounding



Safety In Workshop



- ★ To ensure the absence of such risks, dangers and accidents one who is working in a workshop should follow the instructions of the supervisor or any experienced person and must abide by all the safety measures.
- ★ Lack of even a slight negligence can lead to a very bad consequence as well.
- ★ Always be supervised by your instructor before performing any unknown or any other impactful task.

Safety Measures and Precautions

1 Proper Training

Ensuring all workers are trained in safety protocols and procedures.

2 Regular Inspections

Conducting regular inspections for potential hazards and risks.

3 Emergency Drills

Practicing emergency response procedures to prepare for accidents.

4 Clear Signage

Using clear and prominent signage to indicate potential hazards.



Importance of Proper Training

1

Reduced Risks

Proper training reduces the likelihood of accidents and injuries.

2

Enhanced Skills

Training enhances employees' ability to recognize and mitigate risks.

3

Compliance

Compliance with training requirements ensures a safer work environment.

Emergency Response Procedures

1 Assessment

Quickly assess the situation and determine the nature of the emergency.

2 Alerting Authorities

Notify emergency services and relevant authorities immediately.

3 Evacuation

Initiate evacuation procedures to ensure the safety of all personnel.

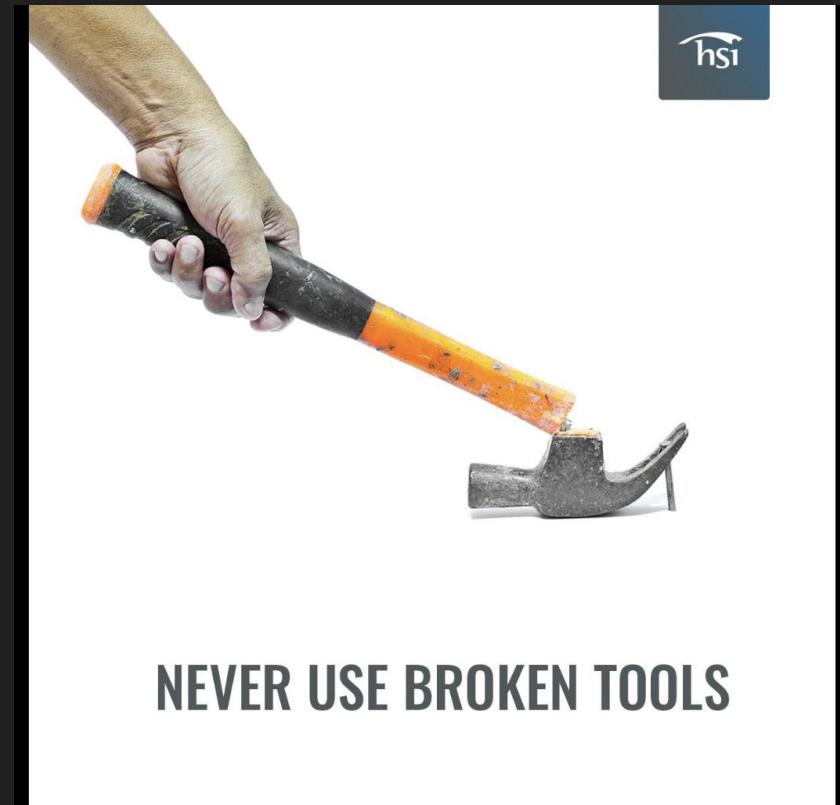


THINGS TO BE AVOIDED IN WORKSHOP

PRESENTED BY:NEHA KUMARI SAH



Unclear and Damaged Tools

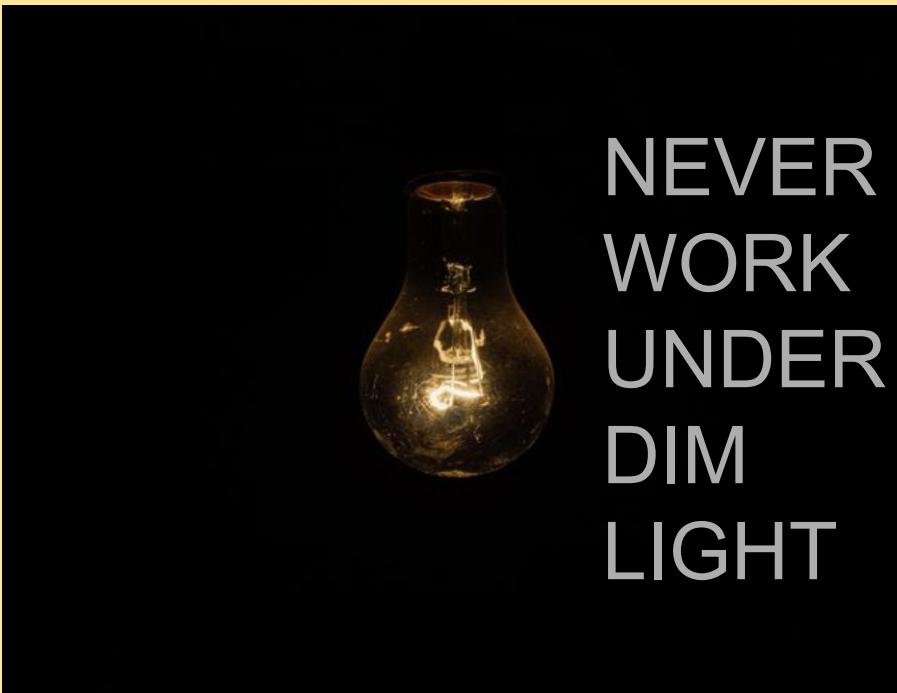


NEVER USE BROKEN TOOLS

- Inadequate Safety Measures.
- Overlooking Proper Training and Supervision.
- Gossiping with other friends while doing workshop.
- Not putting shoes and gloves per requirement.
- Using instrument which you don't know to use properly without instructions



Things to be Avoided In Workshop



**Don't be safety blinded,
be safety minded.**



Safety measures in a workshop are crucial for protecting both individuals and the environment. Here are some guidelines covering various aspects related to workshop safety:

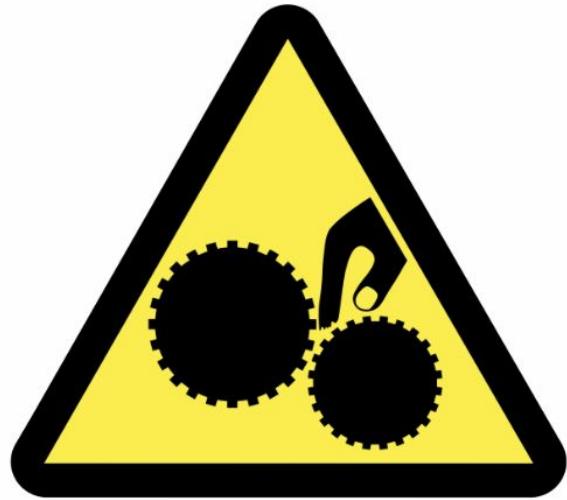
Physical Safety In Workshop



DON'T RUSH

- Don't Rush
- Ensure Fitness
- Be Alert!
- Be Cautious
- Be well disciplined





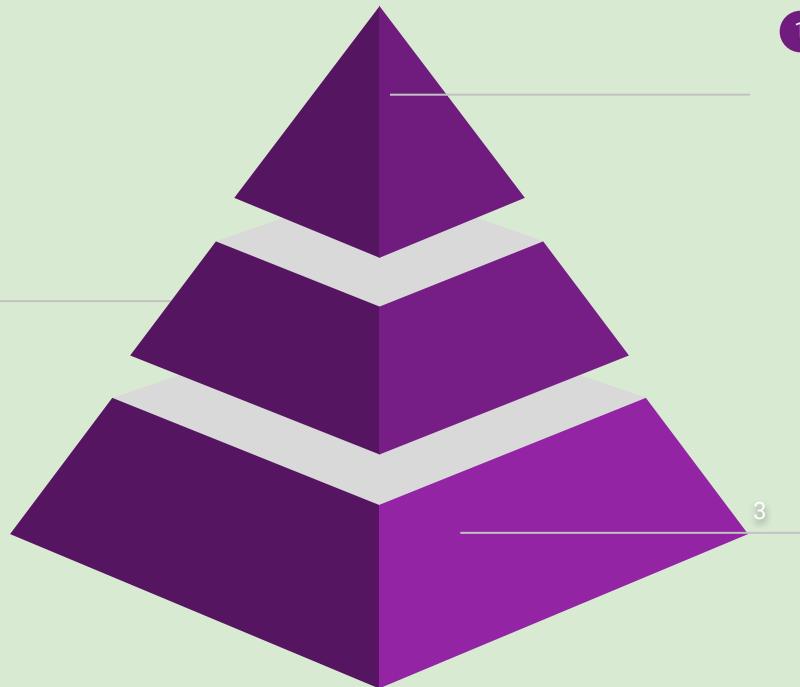
**Beware
of moving
parts**



**SHARP EDGES
HANDLE
WITH CARE**

Mental Safety

Avoid
Distraction



Concentration
and Focus

Pay full
attention

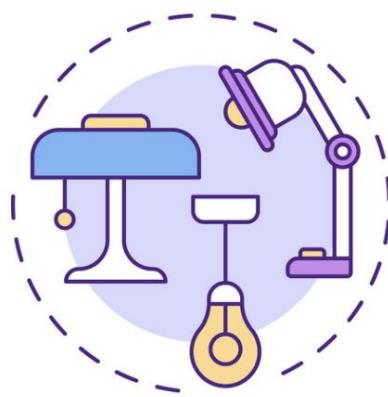
*Follow,
Course,
Successful,
Until*

FOCUS

One



Optical and Sound Safety



Proper Lighting



Wear Ear Plugs in noisy place

Machine Operation Safety:

- Read and understand the manufacturer's instructions and safety guidelines before operating any machinery.
- Use machine guards and safety devices as provided.
- Never bypass safety mechanisms or guards, and report any malfunction immediately.
- Keep work areas around machinery clear of clutter to avoid tripping hazards.

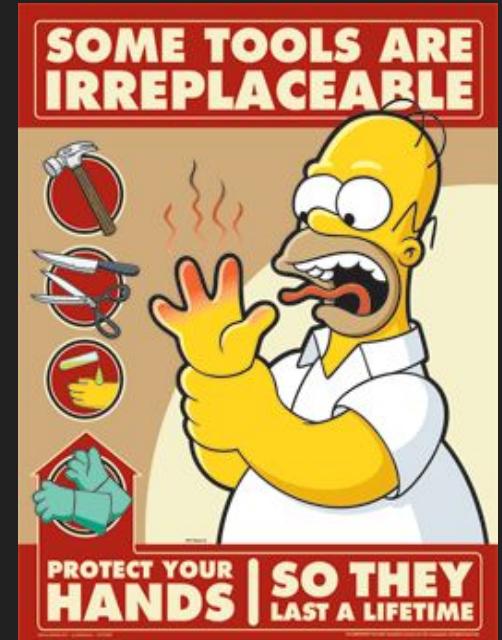
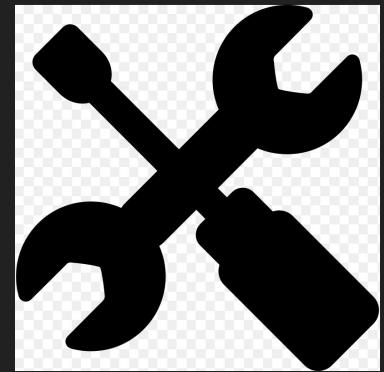


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Tools Safety:

- Inspect tools before each use to ensure they are in good working condition.
- Use tools only for their intended purpose and handle them with care to prevent injury.
- Keep cutting edges sharp and clean to prevent accidents due to slipping.





Fire Safety

- Install and **maintain fire detection and suppression systems**, including smoke detectors, fire extinguishers, and sprinkler systems.
- Ensure clear access to fire exits and emergency evacuation routes.
- Conduct regular fire drills to ensure all employees know evacuation procedures.
- **Prohibit smoking or open flames** in designated areas.
- Train employees in fire safety procedures and the proper use of fire extinguishers.



Dressing Safety:

- Wear appropriate personal protective equipment (PPE) such as safety goggles, gloves, steel-toed shoes, and ear protection based on the specific tasks being performed.
 - Avoid loose clothing or jewelry that could get caught in machinery.
 - Tie back long hair to prevent entanglement in equipment.





Personal Protective Equipment (PPE)

Head Protection

Hard hats are essential for protecting against head injuries.

Eye and Face Protection

Safety glasses and face shields guard against flying debris and chemicals.

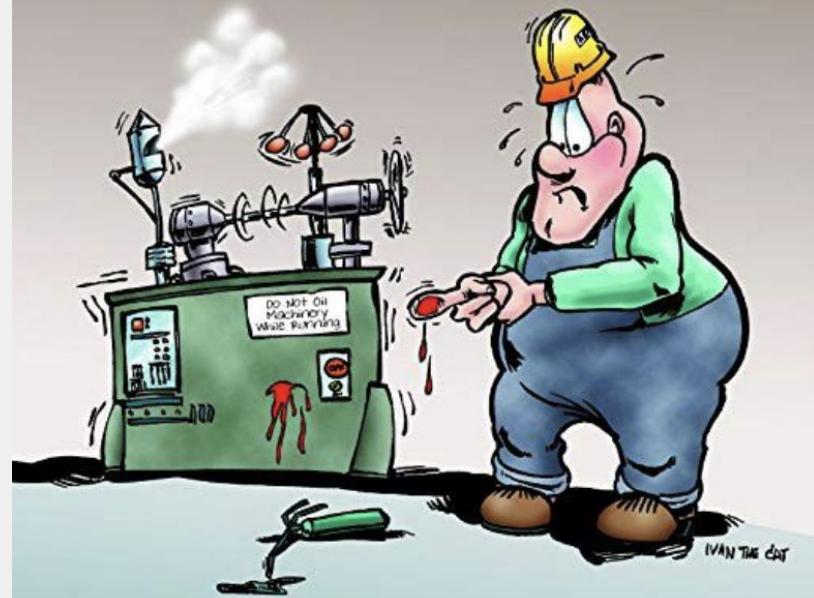
Hand Protection

Gloves provide protection against cuts and abrasive materials.

DANGER!
CHECK FOR LOOSE CLOTHING
BEFORE OPERATING MACHINERY!



Lock It Out Before You Start



Safety First, Protect Your Parts

Protective Shields and Gear



**FULL PPE REQUIERD PAST
THIS POINT - PLEASE CHECK**





THANK YOU!