

#### Industrial Technology Virtual Learning

## **CTE/Safety**

### April 9<sup>th</sup>, 2020



#### Machine Technology 1

Shop Safety April 9<sup>th</sup>, 2020

Objectives

Explain why it is important to develop safe work habits
Dress in the proper safety equipment and clothing for a machine shop
Recognize and correct unsafe work practices
Apply safe work practices when employed in a machine shop
Select the appropriate fire extinguisher for a particular type of fire

#### **Getting Started**

• Do you Practice the following safety?

### Safety in the Shop

- Keep shop clean
- Exercise care when machining unfamiliar materials
- Wear respirator and special protective clothing, when necessary
- Remember shop is a place to work, not play

https://nasdonline.org/7080/d002333/tips-on-shop-safety.html

## Safety in the Shop (Cont.)

- If ill or using medication, make sure it is safe to operate machinery
- Correctly dispose of rags daily

   Minimizes the possibility of spontaneous combustion
- Keep hand tools in good condition and stored properly

## Safety in the Shop (Cont.)

- Use care when handling long sections of metal stock
- Ask for help when moving heavy items
- Dress properly at all times
- Ensure adequate ventilation
- Know your job

#### Practice

• List situations or conditions that you feel are unsafe or not suitably protected to prevent possible injury in your school shop.

#### **Cleaning Extensive Spills**



(3M Company)

#### Appropriate Safety Equipment



#### Appropriate Safety Equipment (Cont.)

- Earplugs
- Plastic gloves
- Dust masks
- Approved respirator
- PPE

- Safety glasses, goggles, and face shields
  - Should all be
     Occupational Safety
     and Health
     Administration (OSHA)
     approved

https://www.osha.gov/SLTC/personalprotectiveequipment/

### **General Machine Safety**

- Never operate machine until all guards are in place
- Keep floor around machine clean and clear
- Do not talk while operating a machine
- Never remove chips or cuttings with hands while machine is operating
- Secure prompt medical attention for any injury

https://www.osha.gov/SLTC/machineguarding/

### **General Tool Safety**

- Never carry sharp-pointed tools in pockets
- Make sure all tools are properly sharpened, in good condition, and fitted with suitable handles

https://ohsonline.com/articles/2010/03/19/power-tool-safety-tips-from-osha.aspx

## Which of the following is defined as an unplanned event that results in damage to property?

- -Hazard
- -Injury
- -Accident
- -Violation

#### Answer: Accident

Which of the following can often result in carelessness when operating a tool?

- -Using a tool repeatedly
- -Wearing gloves
- -Using the wrong tool
- -Awareness of your surroundings

Answer: using a tool repeatedly

## Which of the following is a form of PPE?

- -Flammable substance
- -Abrasion
- -Good communication
- -Safety glasses

# Answer: Safety glasses

Which of the following is an example of a safety device on a tool?

-Gloves

-Hazard

-PPE

-Guards

#### Answer: Guards

## Keeping your work area clean is known as which of the following?

- -Personal protective equipment
- -Good housekeeping
- -Ergonomics
- -Good communication

Answer: Good housekeeping

## \_\_\_\_\_ is an important two word phrase that means safe work practices must always be your main priority

- -Good housekeeping
- -Safety first
- -Always first
- -Heads up

## Answer: Safety first

## Anything that can cause harm to you or others is known as \_\_\_\_\_

-Accident -Poisonous -Hazard

-Scary

#### **Answer: Hazard**

## Lack of \_\_\_\_\_ with tools is one of the most common causes of work related injuries.

-Practice

- -Training
- -Awareness
- -Knowledge

#### **Answer: Training**

You should know the location of the \_\_\_\_\_\_ in your work area in case you need emergency safety supplies.

- -Fire extinguisher
- -Eye wash station
- -First aid station
- -Safety glass cabinet

## Answer: first aid station

## A \_\_\_\_\_ is any sort of damage done to the body.

- -Injury
- -Accident
- -Crime
- -Stoppage

#### Answer: injury

## Safety is a less important concern with the hand tools than it is with power tools.

-True -False

#### Answer: False

## Storing tools properly is a way of practicing safe work habits.

-True -False

#### Answer: True

# Loose clothing is considered a safety hazard.

-True -False

### Answer: True

# Lack of familiarity with tools is among the most common causes of work related injuries

-True

-False

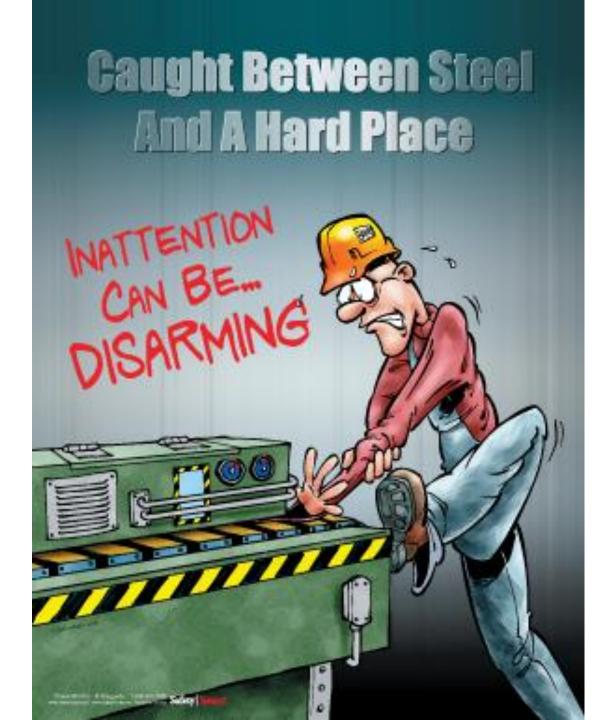
### Answer: True

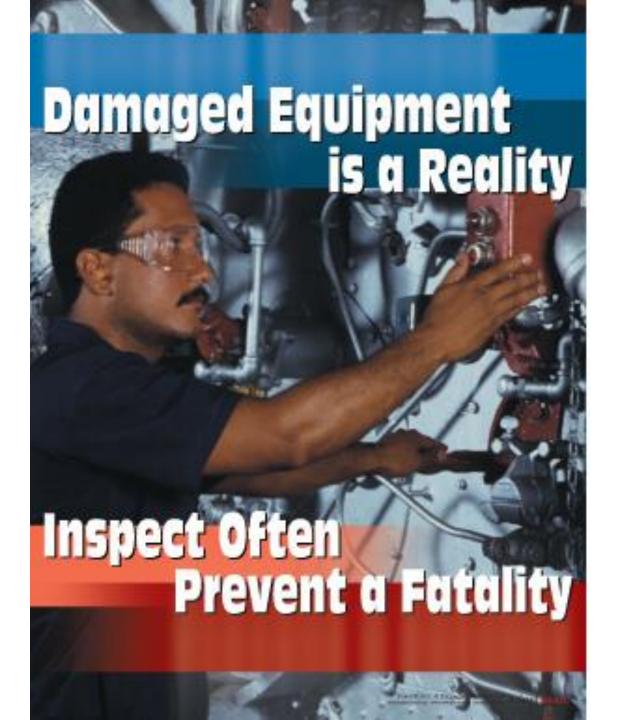
## Safety Posters

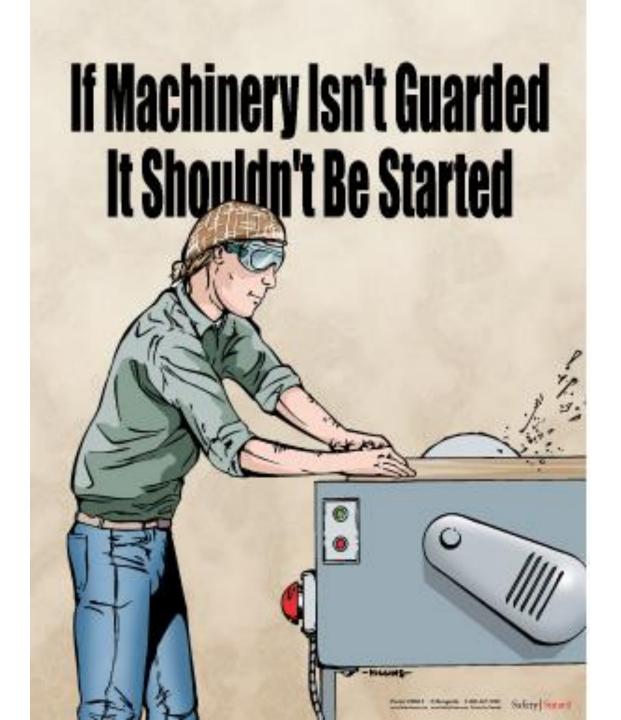
- Make a safety poster on one of the machines in your school shop.
- Be creative with your poster.
- The following are examples of posters

Don't let your hair down around rotating machinery.

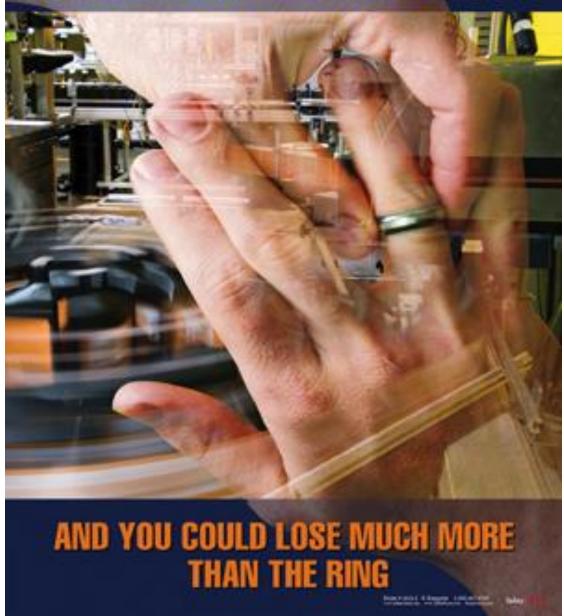
sen and a party







#### Jewelry entanglement in machinery can remove a ring faster than any divorce





#### They are there to protect you.





