

# Hand And Power Tool Safety



# Types of Injuries

- Serious eye injuries
- Lacerations
- Electric shock
- Fractures



# Use the Proper Tool

- Use the tool that's designed to do the job



# Tool Quality and Design

- Good quality
- Handles that fit the hand
- Cushioned handles to help
- Absorb vibration, impacts, or squeezing pressure
- Insulated handles
- Should feel balanced and under control
- Use appropriate blades, bits, and fasteners

# Proper Job Set-up

- Easy to reach work areas
- Heavy forceful tool use is easier if it is slightly lower than waist level
- Lightweight tool use is more comfortable at or above waist level
- When necessary wear kneepads
- Use a vise/clamps to secure work
- Secure footing and good balance
- Keep floors clean and dry
- Use protective screens and barricades

# Personal Protective Equipment

- Check Material Safety Data Sheets
  - PPE is required for substance
  - Body areas needing protection
  - Type of PPE
- Using PPE should become a habit



# Personal Protective Equipment

- Eye protection
  - Hammers, mallets, chisels, punches, bolt cutters, staple guns, drills, abrasive wheels, saws
  - Any other tool that could create chips, pieces, or splashes
  - Required with explosive actuated tools
  - Face protection may also be needed



# Personal Protective Equipment

- Hand protection
  - Cut resistant gloves
  - Gloves that absorbs vibration and shock of impacts





# Personal Protective Equipment

- Ear protection
  - Even with short term exposure
  - Hearing conservation regulation



# Personal Protective Equipment

- Respiratory protection
  - May be necessary based on project
  - Respiratory protection regulations



# Personal Protective Equipment

- Foot protection
  - When using heavy tools
  - When working on heavy materials



# Inspection Procedures

- Inspect tools before and after each use
- Look for any signs of damage
- Tag DO NOT USE
- Take out of service if tool can not be repaired

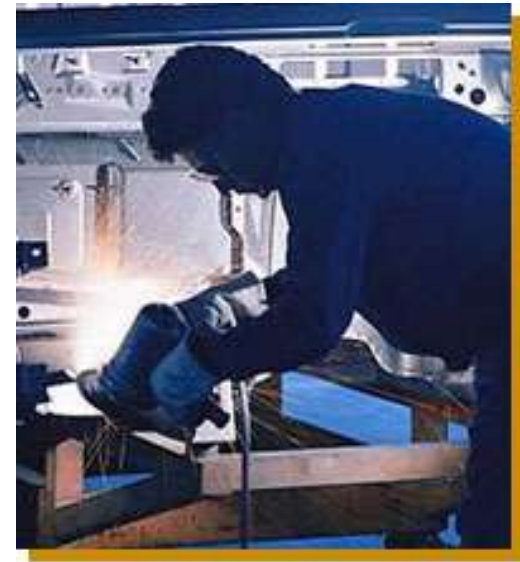


# Care, Maintenance, and Repair

- Keep tools clean
- Maintain and repair before it's too late
- Take damaged tools out of service immediately
- Inspect all repaired tools
- Use tool boxes or tool chests
- Put tools back where they belong

# Power Tools

- Types base on the power source
  - Electric
  - Pneumatic
  - Explosive-actuated



# General Precautions

- Never carry by the cord/hose
- Never yank to disconnect from the receptacle
- Keep cords/hoses away from heat, oil, and sharp edges
- Wet and damp locations
- Disconnect when not in use, servicing, and changing accessories
- Keep observers at a safe distance
- Secure work
- Avoid accidental starting

# More General Precautions

- Maintain the tool
- Maintain good footing and balance
- Proper apparel should be worn
- If damaged tag **DO NOT USE**





# Guards on Power Tools

- Protect from the following:
  - Point of operation
  - In-running nip points
  - Rotating parts
  - Flying chips and sparks
- Never remove the guard



# Questions?

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