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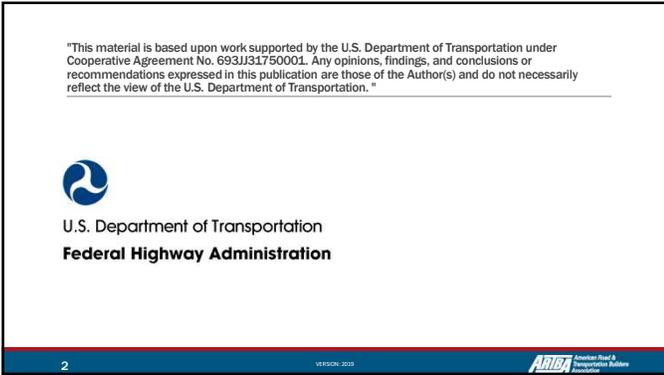
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**Video**

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CASE OF STUDY

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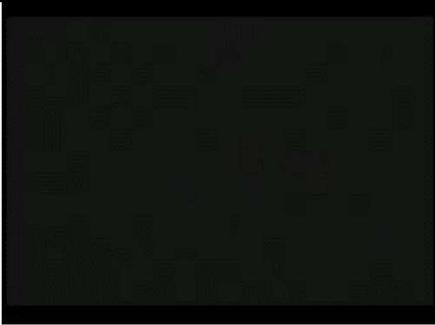
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**General Safety for all Tools**



- Keep tools in good conditions
- Use the right tool for the job
- Examine for damages before use
- Follow manufacturer's instructions
- Use PPE

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## Hand Tool - Hazard Recognition

- Misuse and improper maintenance are the main hazards
- Housekeeping
- Dull tools vs sharp tools



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## Hand Tools

- Use the correct tool for the job
- Check for splintered or cracked handles
- Tethers tools when working at height



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## Video

SAFETY HAND AND POWER TOOLS

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### Power tools

- Powered by electric, pneumatic, liquid fuel, hydraulic, and power-actuated sources to do work



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### Power tools - Hazard Recognition

- Use electric, pneumatic, liquid fuel, hydraulic, and power-actuated sources to do work
- Never carry a tool by the cord or hose
- Disconnect tools when not in use
- Observers should keep safe distance
- Use PPE and Safety guards



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### Power Tools

- Avoid accidental starting
- Maintenance
- Good footing and balance
- Don't use loose clothing, ties, sleeves, jewelry
- "Do Not Use" sign
- Silica, lead, asbestos, fumes



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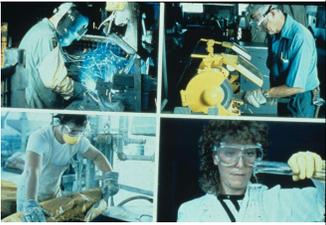
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### Guards

- Moving parts must be guarded
- Operators and other workers should be protected
- Never remove safety guards



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## Video

MOVING PARTS IN POWER TOOLS

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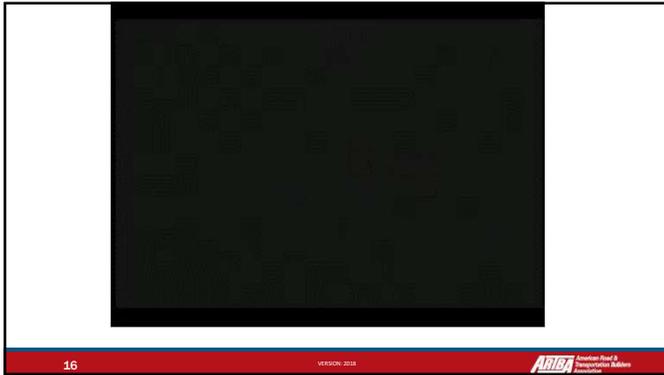
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### Scissor Points, Pinch Points and Moving Parts

Loose clothing (high viz), long hair, watches and even rings can be caught in moving parts.

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### Lockout - Tagout

Before any inspections or repairs are made, the current must be turned off at the switch box and the switch padlocked in the OFF position (locked-out)

At the same time, the switch or controls must be securely tagged to show which equipment or circuits are being worked on (tagged-out)

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### Identify the Hazards

- 1. No GFCI
- 2. System not grounded
- 3. Openings where conductors entered not closed
- 4. No cover on boxes
- 5. Panel boards were not dead front



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### Identify the Hazards

- 1. No guard protection
- 2. Sparks near gas cylinders could produce explosion Oxyacetylene
- 3. No PPE
- 4. Hoses are not protected



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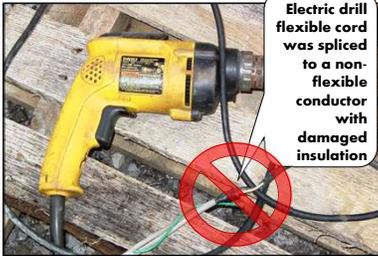
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### Identify the Hazards

Electric drill flexible cord was spliced to a non-flexible conductor with damaged insulation



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### Identify the Hazards



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### Tool Hazards Summary

- Identify the risks associated to hand tools and powered tools
- Recognize key characteristics of the incidents with hand tools and powered tools
- Explain how you can avoid incidents with tools



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### Break

Questions

Poll

We Will continue in ... minutes



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