Monthly Safety Meeting

Welcome!!
Hand and Power Tools Safety

Presentation by Safa Toma
January 22, 2014
Agenda

- General Safety Precautions for using hand and power tools
- Hand Tools
- Power Tools
- Special Feature - Table Saw
General Safety Precautions for Using Hand and Power Tools

- Keep all tools in good condition with regular maintenance
- Use the right tool for the job
- Examine each tool for damage before use
- Operate according to the manufacturer’s instructions
- Provide and use correct PPE
Hand Tools

- Greatest hazards are misuse and improper maintenance
- Use the right tool for the job
- Wear proper PPE
  - Safety glasses at a minimum
  - Many need gloves, steel-toed shoes, hearing protection, etc.
- Hand tools can be a source of ignition
Power Tools

- Electric
- Pneumatic
- Fuel Powered
- Hydraulic

The hazard of a power tool is related to its power source.
Power Tools Precautions

- Never carry by the cord or yank the cord
- Disconnect when not in use or when changing bits or repairing
- Keep others at a safe distance
- Secure the work piece
- Wear proper PPE
Power Tools Guards

- Never modify or remove a guard
- Guards protect you from the point of operation and/or flying debris
- NEVER “Jerry Rig” a tool to operate without a safety feature
Power Tools - Table Saw

- Fence was repaired
- Needs a splitter or riving knife
- Use is restricted to trained personnel (Rick and Chris). Others may use under the DIRECT supervision of Rick or Chris
- Eye and hearing protection required
- Eye protection required in shop at all times
Saw Video
Power Tools - Abrasive Wheel and Grinder

- Watch for flying fragments on startup and when using
- ALWAYS wear safety glasses AND face shield
- Clean up area before AND after use - note where sparks are landing
- Never stand in front when powering up
- Rest must be no more than 1/8 inch away from wheel
Power Tools - Abrasive Wheel and Grinder (Cont.)

- Inspect new and used abrasive wheels by tapping
- Listed for a hollow thud vs. solid ping
- Don’t over-tighten the spindle
Power Tools - Pneumatic and Fuel-Powered

- High air pressure can be a hazard - note condition of air hoses and fittings
- Show-and-tell: Air nozzle
- Fuels - flammables and can spill
- Power down for servicing & Maintenance
- Wear PPE
Sources for Additional Information

- Call your EH&S Department if you have doubts or questions
- Hand and Power Tools - OSHA Publication 3080
Thank you!!