

# GLASC









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#### **Three Areas of Safety Concern**

#### The Application and Environment





The Operator

















# ULTIMATE SAFETY. Maximum productivity.



Perform & Protect is our stamp of certification and range of power tools that let you get more done in less time. Tools in the range let you consistently perform to the highest standards without compromising safety or health. Tools in the Perform & Protect range are designed to consistently exceed health and safety regulations without compromising on performance. It is our stamp of certification that lets you know that the tools you use are up to the task — they let you get more done in less time without compromising health and safety.

#### **General Tool Safety**

#### • Tool

- Right Tool for the Job (including the accessory)
- Up to date safety features
- Condition (Guards, Power Cords, Fasteners)
- Unplug/Remove Battery when changing accessory (blade/bit)
- Environment
  - Caution on ladder and when working at height
  - Proper material vising
  - Be aware of and/or remove tripping hazards (cords, materials)
- Operator
  - Proper PPE
  - Avoid awkward/off-balance stances
  - Take time. Avoid distractions. Pay attention to what you're doing.







#### **Sawing Applications**















### Sawing Applications – What Can Go Wrong?

- Kickback
  - Dropped tool
  - Arm injury
  - Cut by blade
  - Can fall if on ladder or high place
- Loss of control after cut
  - Hit and/or cut leg
- Turn saw on unintentionally
  - Get cut
  - Damage work piece















### Sawing Applications – How to Stay Safe

- Maintain positive control of tool
  - Proper vising of loose work pieces
  - Two hands on the tool, when appropriate
  - Don't stand directly behind saw
- Help Prevent Kickback
  - Support workpiece to avoid pinching
  - Avoiding twisting tool when cutting
  - Select proper blade (type and teeth per inch or tooth count)
  - Use sharp blades
- Be careful working at heights or on ladder







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#### DEWALT 20V MAX 7-1/4-Inch Circular Saw with Brake

PERFORM PROTECT...

**IRWIN**.







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DCS376B

#### 20V MAX\* 5" Dual Switch Band Saw



#### DCS377B

#### ATOMIC<sup>™</sup> 20V MAX\* Brushless Cordless 1-3/4 in. Compact Bandsaw















### **Drilling Applications**















### **Drilling Applications – What Can Go Wrong?**

- Kickback
  - Can cause injury or dropping tool
  - Can fall if on ladder or high place
- Hair or Loose Clothing Caught on Bit

















## **Drilling Applications – How to Stay Safe**

- Maintain positive control of tool
  - Proper vising of loose work pieces
  - Two hands on the tool, when appropriate
  - Don't stand directly behind saw
- Help Prevent Kickback
  - Maintain straight cuts
  - Use the proper bit (for example: augur vs spade)
  - Use sharp bits
- Be careful working at heights















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#### **Impact Tools**

















#### Impact Tools– How to Stay Safe

- Use proper socket
  - "Impact Ready" vs Hand Socket
  - Correct size and number of points
  - Good condition
  - Good quality
- Use tool properly
  - Use correct amount of torque to avoid overtightening
  - Don't hold impact at an angle
- PPE! Especially safety glasses































### **Grinding/Cutting Applications**

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#### **Grinding/Cutting Applications – What Can Go Wrong?**

- Broken wheels
- Damage/injury from sparks

















### **Grinding/Cutting Applications – How to Stay Safe**

- PPE! especially face shield
- Use the right abrasive
  - Cutting vs Grinding
  - Type 1 vs Type 27
  - Correct diameter (same as tool)
  - Check condition
  - RPM (must be rated faster than the speed of grinder)
  - Not damaged (dropped/chipped/cracked)











### **Grinding/Cutting Applications – How to Stay Safe**

- Use the tool correctly
  - Do not remove the guard
  - Adjust the guard properly
    - Be aware of other people
  - Unplug/remove battery when changing wheel
  - Use the handle (two hands)
  - Let wheel stop before laying tool down
  - When cutting...
    - always enter the workpiece at 90°.
    - do not twist or try to change direction.































### **Tool Tethering – for use at height**

- Lanyard Ready
  - Attachment point is designed for users to utilize a lanyard to tether the tool & battery at height
  - Can be added to existing tools with service kit

















#### **Rotary Hammers – Silica Dust Extraction**

















#### Silica Dust Extraction – What Can Go Wrong?

- Silicosis Silica dust particles become trapped in lung tissue causing inflammation and scarring. The particles also reduce the lungs' ability to take in oxygen. This can result in permanent lung damage and is a progressive, debilitating, and sometimes fatal disease
- The OSHA standard (29 CFR 1926.1153) requires employers to limit worker exposures to respirable crystalline silica and to take other steps to protect workers. Employers can either use a control method laid out in Table 1 of the construction standard, or they can measure workers' exposure.....









#### Silica Dust Extraction – How to Stay Safe



# **EXTRACTORS**

Dust extractor must provide the airflow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency. DEWALT extractors ship with dual HEPA filters, which have an efficiency of 99.97%. They provide necessary airflow for drilling, hammering, and grinding.





### TOOLS

Operate and maintain tools in accordance with manufacturer's instructions to minimize concrete dust exposure. To minimize dust exposure, use recommended shroud or cowling, and dust extractor.

# **ACCESSORIES & SHROUDS**

Use drill or grinder equipped with commercially available shroud or cowling with dust collection system. All DEWALT shrouds and dust collection systems are commercially available.













#### Silica Dust Extraction – How to Stay Safe





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DEWALT Dust Extractor: Cordless, 60 V DC, HEPA, Dry/Wet, 2 gal Tank, (1) Bare Tool, 125 cfm, Plastic

DCV585B







DEWALT Cordless Rotary Hammer: Pistol-Grip, 20V DC, SDS-Plus, 1 in max, 5.0 Ah, 1.5 ft-lb, 4,600 bpm

#### DCH273P2DHO

DEWALT Dust Extractor: HEPA, Dry/Wet, 8 gal Tank, 150 cfm Air Flow, 115V AC, 1 1/4 in Hose Dia

#### DWV015



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DEWALT Rotary Hammer: SDS-Max, L-Shape, 2 in Capacity, 14.3 ft-lb, 15 A, 2,210 bpm, 120V AC

D25773





DEWALT Cordless Rotary Hammer Kit: D-Handle, 20V DC, SDS-Plus, 1 in max, (1) Bare Tool/(1) Battery

DCH273

















**DWH205DH** On-Tool Dust Extractor





DWE46152

DCH050 Dust Extraction Surface Attachment

















# THANK YOU





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