Trade Safety Series:
Using Power Tools Safely -
Jackhammers

About the Video:
Master builder Todd Newman shares his 20+ years experience as a very safe builder, showing and explaining the best practice when it comes to the safe use of power tools. In this program we examine the best practice for using jackhammers.

Year of Production: 2014
Total length of video: 3.35

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Timeline

00.00 Introduction and Injuries

00.52 Personal Protection Equipment

01.14 Electricity dangers

01.30 Choose the right chisel

02.03 Time to go

02.20 Safety switch

02.32 In action
Learning Activities

For consideration prior to viewing:

*These activities can be undertaken with participants working individually or in one or more small groups. They are designed so responses can be made in different ways, including brainstorming, discussion, written responses, role-plays etc.*

1. Pair students up. Ask them to brainstorm and list all the dangers students can think of posed by a jackhammer in a construction site. Compile the list as a class. What did they identify? What did they not identify? Discuss.

2. Ask students to research all the possible injuries jackhammer. Discuss instances where these injuries are most likely to occur.

3. As a hypothetical exercise, ask students to imagine that they are in charge of safety at a construction site. Ask students to design a safety campaign to minimize injuries from jackhammers. Think visual (e.g. posters), verbal (e.g. toolbox meetings) and administrative (process regulation).
Questions about the video:

1. List the three main injuries that can occur when using a jackhammer.
   1. ______________________________________________________________
   2. ______________________________________________________________
   3. ______________________________________________________________

2. What five items of Personal Protective Equipment does Todd recommend?
   1. ______________________________________________________________
   2. ______________________________________________________________
   3. ______________________________________________________________
   4. ______________________________________________________________
   5. ______________________________________________________________

3. Check the power cord or lead for _______ _______ or _____________.

4. What are the three tools or attachments available for jackhammers?
   1. ______________________________________________________________
   2. ______________________________________________________________
   3. ______________________________________________________________
Questions about the video: Answer key.

1. List the three main injuries that can occur when using a jackhammer.
   
   A: 1) Back injury 2) Ears / Hearing 3) Feet

2. What five items of Personal Protective Equipment does Todd recommend?
   
   A: 1) Hi Vis vest or shirt 2) Hard hat 3) Steel-capped boots 4) Ear protection 5) Eye protection

3. Check the power cord or lead fro ________ ________ or __________________.
   
   A. Nicks, breaks, other damage.

4. What are the three bits available for jackhammers?
   
**Follow-up activities**

These activities can be undertaken with participants working individually or in one or more small groups. They are designed so responses can be made in different ways, including brainstorming, discussion, written responses, role-plays etc.

1. Research the best first aid for a foot injury from a jackhammer

2. Research the best PPE options for use in a hot climate, and then a cold climate.

3. Research the different chisel attachments available, and when you should use them.
**Suitable resources**

Equipment and machinery resources (range of material available from this page)


Jackhammers:


Building and Construction Industry Guidelines for Electrical Practices:


Safety handbook for the building and construction industry:


Hierarchy of hazard controls: