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Continuing Education Course #514
Heavy Civil Construction Safety
Part 4. Hand & Power Tool Safety

1. To help prevent accidents, Circular saws should be used?
 - a. To make straight cuts with sharp blades
 - b. Only to cut wet wood, or materials with damages, knots, or cracks
 - c. With any blade that properly fits the saw dimensions
 - d. By plunge cutting the blade into the material
2. Which is not a proper technique for using a shovel?
 - a. Keep the loaded shovel close to the body.
 - b. Swing and Twist your back
 - c. Do not hold the load out with your arms
 - d. Move your feet to turn and travel
3. What are common maintenance tasks for Pick safety?
 - a. Keep Handles Tight
 - b. Keep handles free of cracks and splinters
 - c. Both A & B
 - d. Neither A or B
4. What is a good safety practice for Pinch Bar use?
 - a. Use proper posture and positioning
 - b. Provide adequate and clear space
 - c. Gloves should be worn
 - d. All of the above.
5. What is a common mistake when using Hacksaws
 - a. Properly tensioning the blade when in use
 - b. Utilizing the correct blade for the intended material
 - c. Cutting unbraced, unsecured material
 - d. Installing the blade with the teeth pointed forward
6. What is a sign of a misused Screwdriver?
 - a. A straight and sharp blade with no nicks
 - b. A solid, uniform handle
 - c. A twisted or bent shaft
 - d. none of the above
7. When are pliers used?
 - a. cutting
 - b. pulling nails

- c. replacing wrenches
 - d. gripping
8. Which is not a proper way to loosen a stubborn nut that won't budge when using a given wrench:
- a. Get a bigger wrench rated for more torque
 - b. Use a lubricant penetrating oil
 - c. Cut or torch it off
 - d. put a pipe or extender on the wrench handle for more leverage
9. What are items to consider when hammering?
- a. Is this the right hammer for the application?
 - b. Is the hammer in good working condition?
 - c. How far can I throw this hammer?
 - d. Both A & B
10. What is usually not a source of injury from the use of Chisels?
- a. The chisel can splinter and fragments can cut you
 - b. The material being chiseled can also splinter and strike your eye.
 - c. Back injuries from not using proper lifting techniques
 - d. When swinging the hammer you can miss and hit your hand
11. What is untrue about the drill bits used with power drills?
- a. Drilling at an angle may snap the bit because of the added side pressure
 - b. Drill bits are interchangeable and can be used on any material as long as they are the right size.
 - c. To avoid pit sideslipping, use a center punch when drilling metal
 - d. The bit must be securely tightened in the drill prior to use
12. Proper training and certifications are necessary for most tools, what is different for Powder-Actuated Tools?
- a. The law requires training provided by the manufacturer or distributor and the user must have a training card with him at all times when using the tool.
 - b. The user must have a valid handgun license since the tool utilizes .22 and .38 caliber gun shot
 - c. The certifications classes can be generally found online and issued by any credible website.
 - d. As long as the supervisor has had certified training, anyone can utilize a powder actuated tool while under his supervision
13. When setting up a jack, all statements about ground site considerations should be considered except:
- a. Site considerations don't matter, once the jack is loaded it will seat itself into the ground for stability
 - b. The site should be level
 - c. The ground should be stable
 - d. The ground should be firm
14. What additional PPE is recommended to avoid foot injuries while using a jackhammer?
- a. Anti-Whip devices at hose connections
 - b. metal shin & metatarsal guards
 - c. Full-length pants (shorts or cut-offs are not allowed)
 - d. A steel plate or equivalent protective shield should always be placed between the operator and the jack hammer.
15. What are examples of safety devices that are part of a grinder that should never be removed for convenience?
- a. Blade Guards
 - b. Automatic Shut-Offs

- c. Side Handles
 - d. All of the Above
16. What is the correct way to start a chainsaw?
- a. Use two people, all chainsaw work should be a two-person task
 - b. While standing upright, hold the cord tightly with one hand and then drop start the saw away from your body
 - c. Rest the saw on your leg to stabilize it horizontally, than pull the strater cord
 - d. With the chainsaw on the ground, with a firm stance start the chainsaw
17. What are three chain requirements for safe chainsaws?
- a. They must be sharp, non-tensioned, & must stop and hold when idling
 - b. They must be sharp, properly tensioned, & must stop and restart when idling
 - c. They must be dull, properly tensioned, & must stop and hold when idling
 - d. They must be sharp, properly tensioned, & must stop and hold when idling
18. What does OSHA stand for?
- a. The Occupational Safety and Health Administration
 - b. The Occupational Safety and Health Act of 1970
 - c. The Occupational Safety and Health Association
 - d. The Occupational Support and Health Administration
19. To increase knowledge and understanding of safety, the reader should consider getting their:
- a. OSHA 300-hour Construction Safety and Health Card
 - b. OSHA 30-hour Construction Safety and Health Card
 - c. OSHA 3-hour Construction Safety and Health Card
 - d. OSHA 3000-hour Construction Safety and Health Card
20. With Heavy Civil Construction, when is it acceptable to sacrifice the safety of an operation for added production?
- a. If the schedule critical path shows negative float
 - b. If the budgeted costs show losses for a particular item
 - c. If the project inspectors aren't available during a planned activity
 - d. It is never acceptable to sacrifice safety for production!

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