Belt Haulage Accident Problem Booklet

Instructions

Read the problem situation described on the next page. Study the figure until you understand the location of the miners and equipment in the problem. Next, answer each of the 7 questions. Do them one at a time. Don't jump ahead, but you may look back to earlier questions and answers. Some of the questions direct you to choose only one answer unless you are told to "Try again!" Other questions tell you to select as many answers as you think are correct. Follow the directions for each question.

After you have selected a choice to a question, look up its number on the answer sheet. Select your answer to each question by rubbing the develoing pen between the brackets on the answer sheet. A hidden message will appear that tells you if you are right. When you have finished, you will learn how to score your performance.

Belt Haulage Accident Exercise

Background

This is a drift mine with conveyor belt haulage.

You are near the feeder-breaker 1000 ft. from the portal.

You are a general laborer trained in basic first aid.

Doug Tacket and another miner are working with you.

First aid supplies are 200 feet away at the dinner hole.

Problem

You, Doug Tacket, and another miner are shoveling loose coal onto the belt-line. While pitching a load, Doug catches the tip of his shovel on the moving belt, throwing his arm to the right and flinging the shovel down the entry. Look at Figure 1 below. Turn to page 4 and answer the first question.



Figure 1: Shovel catches on belt and is jerked from Doug's hand

Question A

Doug is swearing and holding his right shoulder with his left hand. What should you do? (Choose only ONE unless you are told to "Try again!")

- 1. Leave Doug and find the foreman.
- 2. Tell the other miner to get the first aid kit so you can put Doug's arm in a sling.
- 3. Keep shoveling until Doug tells you he needs help.
- 4. Check Doug for injuries.

Question B

You are checking Doug for injuries. How would you do this? (Select as MANY as you think are correct.)

- 5. Ask him to point to where it hurts most.
- 6. Feel his collar bone, shoulder joint, and upper and lower arm.
- 7. Look at the way he holds his injured arm.
- 8. Check both wrist pulses.
- 9. Ask if he can wiggle the fingers on his right hand.
- 10. Take his right upper arm and see how far you can move it up and to each side.

When you have made your selection(s) do the next question.

Question C

You tell the other miner that you think Doug has dislocated his shoulder. The other miner says he is sure he can "pop" it back into the correct position. What should you do now? (Choose only ONE unless you are told to "Try again!")

- 11. Let the other man try to "pop" Doug's shoulder.
- 12. Say "no thanks" and ask him to get the first aid kit.
- 13. Ask Doug if he will let the other man "pop" his shoulder in.

Question D

What reason or reasons should you give the other man for not "popping" Doug's shoulder back in place? (Select as MANY as you think are correct.)

- 14. Doug may have a fractured bone in his shoulder or arm.
- 15. Improperly putting his shoulder back into place could cause injury to blood vessels or nerves.
- 16. The shoulder will hurt more after it is put into place.
- 17. Dislocations often "pop back" into place by themselves and the longer you wait the better.

When you have made your selection(s) do the next question.

Question E

The other man returns with the first aid kit. What should you do now? (Select as MANY as you think are correct.)

- 18. Tape a 3-inch pad to Doug's right side to hold his elbow away from his body.
- 19. Place an inflatable splint on his right arm.
- 20. Place Doug's right arm in a sling.
- 21. Check Doug's right wrist pulse.
- 22. Tie a cravat around Doug's chest and his right arm (which is in a sling).
- 23. Unzip Doug's jacket part way and have him put his right hand inside it to support his arm.

When you have made your selection(s) do the next question.

Question F

Which diagram shows how the sling and cravat should be placed to support Doug's shoulder? (Choose only ONE unless you are told to "Try again!")

- 24. Figure A.
- 25. Figure B.
- 26. Figure C.
- 27. Figure D.

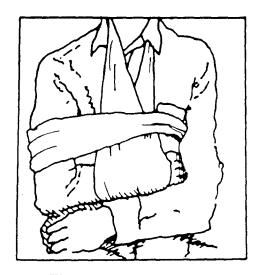


Figure A

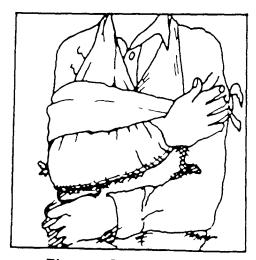


Figure C

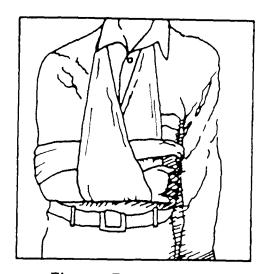


Figure B

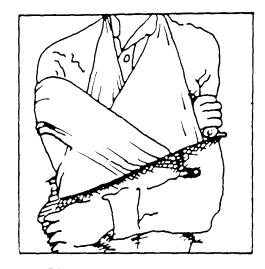


Figure D

Question G

What can you say about why Doug got hurt in the first place? (Choose only ONE unless you are told to "Try again!")

- 28. The belt was probably moving too fast.
- 29. Doug probably failed to wear gloves.
- 30. The shovel handle was probably wet.
- 31. Doug was probably shoveling against the direction of the belt.
- 32. Doug was probably too slow to safely shovel onto the belt.

Scoring your performance

- 1. Count the total number of responses you colored in that were marked "correct." Write this number in the first blank on the answer sheet.
- 2. Count the total number of incorrect responses you colored in. Subtract this number from 17. Write the difference in the second blank on the answer sheet.
- 3. Add the numbers on the first and second blanks. This is your score.

The highest score is 32. The lowest score is 0.