

**Problem on the Catwalk (Phosphate)**

**Problem Booklet**

## **Instructions**

Read the problem described on the next page. Next, answer each of the eight questions. Do them one at a time. Don't jump ahead, but you may look back to earlier questions and your answers. Some questions tell 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 developing pen between the brackets on the answer sheet. A hidden message will appear and tell you if you are right. When you finish you will learn how to score your performance.

## **Problem on the Catwalk (Phosphate)**

### **Background**

It is dry with overcast skies, 74°, and 10:20 p.m.

There are few people on the property this evening.

An 815 ft. long conveyor belt leads to the top of a product storage bin.

The conveyor belt drive has broken down. The belt runs from the washer to the product bin.

You are an electrician, trained in basic first aid and CPR.

J.J. Parsons, your co-worker, is 52 years old, has a heart condition and carries nitroglycerin tablets.

There is a washer operator in the control room, about three minutes from your position.

A basic life support ambulance and EMTs are 15 minutes away at the nearest town.

### **Problem**

You and J.J. are walking up the catwalk beside the conveyor to check the belt drive for damage. About 10 feet from the top of the bin, J.J. gasps, clutches his chest, and sits down on the walkway. Look at Figure 1 on the next page. Then turn to page 5 and answer the first question.

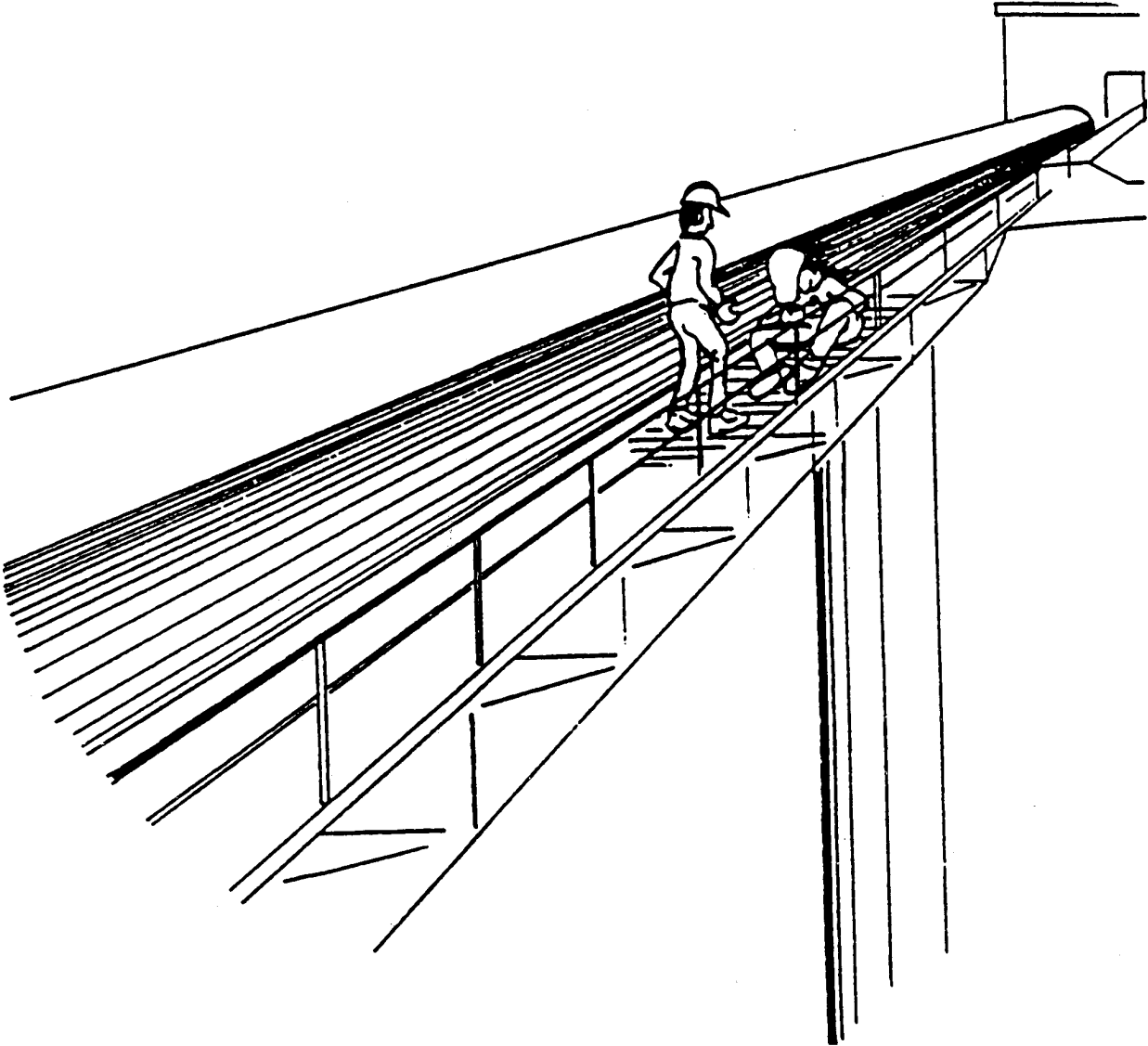


Figure 1: J.J. gasps, clutches his chest, and sits down

**Question A**

J.J. says "I'm all right. Help me up. I can make it." What should you do now? (Choose only ONE unless you are told to "Try Again!")

1. Carry J.J. down the catwalk on your back.
2. Help J.J. walk back down the catwalk to the ground.
3. Tell J.J. to take it easy and check him for a heart attack.
4. Run to the washer control room and get help.

**Question B**

You are checking J.J. for a heart attack. What things should you look for? (Select as MANY as you think are correct.)

5. Dilated pupils
6. Flushing (redness) of the face
7. Nausea
8. Numbness on one side of the body
9. Pain that begins below the left nipple and worsens with a deep breath
10. Pain in the center of the chest, shoulder, neck, arms, or jaw
11. Sweating
12. Trouble breathing

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

**Question C**

J.J. says "Let me be," and tries to get up. What should you do now? (Choose only ONE unless you are told to "Try Again!")

13. Ask him to rest a minute and swallow one of his nitroglycerin tablets.
14. Ask him to rest a minute and then put a nitroglycerin tablet under his tongue.
15. If necessary, hold J.J. down to keep him from getting up.
16. Run to the phone in the washer control room and call the ambulance.

**Question D**

J.J. now says that the pain is gone. What should you do now? (Select as MANY as you think are correct.)

17. Have him rest a couple of more minutes before doing anything.
18. Tell him to wait. You run to the washer control room and call the ambulance.
19. Tell J.J. to take another nitroglycerin tablet "for insurance."
20. Ask him if he always has chest pain when he exerts himself.
21. While J.J. rests, you walk the 10 feet up the catwalk to the top of the bin and yell for help.

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



**Question E**

You check on J.J. again. As you talk with him, he again says he always gets chest pain when he does heavy work. What additional questions should you ask him now? (Select as MANY as you think are correct.)

- 22. "Have you had more chest pain than usual lately?"
- 23. "How many of your family members died from heart attacks?"
- 24. "Is the pain usually this bad when you do heavy work?"
- 25. "Have you walked up to the top of the bin recently?"

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

**Question F**

After he rests awhile, J.J. says he can make it back down to the ground. He gets up and starts down the catwalk. He stops after a few steps, sits down, rubs his chest and says he has pain again and can't catch his breath. What should you do now? (Select as MANY as you think are correct.)

26. Have him sit down with his legs pointing down the catwalk and help get him into a position he says is comfortable.
27. Unbutton his shirt. Put your ear to his chest and listen to his heart.
28. Help him put another nitroglycerin tablet under his tongue, as he requests.
29. After he rests for a few minutes, get him up. Help him down the catwalk and get him medical attention.
30. Cover him with your jacket, ask him to rest, and reassure him. Tell him that you're going for help and he should stay there. Then go.
31. Take J.J.'s pulse and shine your light into his eyes to see if his pupils get smaller.

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

**Question G**

After you cover J.J. with your jacket and reassure him, you go for help. In about 3 minutes, you come to the washer control room. You and the washer operator call the ambulance and describe J.J.'s condition and the plant location. You're told that the ambulance will arrive in 15 minutes. Now what should you do? (Choose only ONE unless you are told to "Try Again!")

32. Both you and the washer operator should go back and take care of J.J.
33. Have the washer operator call J.J.'s home and notify his wife or family that he is having a heart attack.
34. While you go back to help J.J., have the washer operator call another worker to meet the ambulance at the plant gate and bring it to J.J.'s position.
35. Call the company office to see if they have J.J.'s medical records, so you can give these to the ambulance EMTs.

## **Question H**

When you get back to J.J. you find him resting as you left him. He says he feels better. Why is it important to stay with J.J. and not leave him? (Select as MANY as you think are correct.)

36. To reassure and calm him.
37. To immediately place his head down the inclined catwalk and his feet uphill to treat him for shock.
38. So you can give him CPR in case his heart stops.
39. So you can check him and decide when it is OK for him, with your help, to climb down the catwalk.
40. So you can tell his family you did all you could in case he dies.

## **End of Problem**

### **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 22. 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 best possible score of 40 results from selecting all the correct answers and no wrong answers.

The worst possible score of zero results from selecting all the wrong answers and no correct answers.