ABERDEEN PVC PLANT

NEW EMPLOYEE SAFETY ORIENTATION

TRAINING CHECKLIST

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(1)	ABERDEEN SAFETY ORIENTATION SHOW	X	JVD
(2)	HEALTH SHOWS: VCM	X	JVD
	LEAD		
	TOSCA		
(3)	SAFETY RULE BOOKS: CONOCO	X	JVD
	ABERDEEN	X	JVD
(4)	DuPONT SAFETY ORIENTATION (#500)	X	JVD
(5)	LIFTING: NSC BOOKLET	X	JVD
	DISCUSSION	X	JVD
(6)	FORKLIFT TRAINING: SHOW	X	JK.
	FIELD	X	JK.
(7)	ELECTRICAL LOCKOUT: ALLIED CHEMICAL FILM		
	REVIEW OF ABERDEEN LOCKOUT PROCEDURE		
(8)	RESPIRATOR TRAINING: SCOTT AIR PACK	X	JK.
	FRESH AIR	X	JK.
	DUST	X	JK.
(9)	EQUIPMENT ENTRY: CHARTER OIL FILM	X	JVD
	REVIEW OF ABERDEEN ENTRY PROCEDURE	X	JVD
(10)	PICTURES TAKEN	X	JVD
(11)	SAFETY EQUIPMENT ISSUED	X	JVD
(12)	ALL QUIZ SHEETS CORRECTED AND ATTACHED	X	JVD
(13)	INTRODUCTION TO PLANT MEDICAL		

TRAINEES

(1)	FROSSARD, JEFF	(7)	
(2)	DIXON, MARK	(8)	
(3)	Nalls William	(9)	
(4)	Cleveland Brown	(10)	
(5)	Gladie Joe Hollis	(11)	
(6)	Charlotte Howe	(12)	

DATE: 6-11-81

11/80: AHS

VAB.0001076271

Charlotte Lowe

(82)

ABERDEEN FORKLIFT TRAINING PROGRAM

SECTION I QUIZ

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false 1. Good, competent, professional forklift operation is a safe operation and you can never be too experienced to learn more about safety.

true 2. The first rule of safe forklift operation is to know the capacity of your truck.

true 3. The load capacity of each of our forklift trucks is clearly marked on the identification plate on the truck.

false 4. If you are in doubt about your forklift's ability to pick up a certain load, use the trial and error approach.

true 5. A pre-work check of your forklift should be made to be sure it's working right and will operate safely.

true 6. The further the center of the load is away from the front of the carriage, the larger the load you can pick up.

false 7. All of the forklift trucks in the Aberdeen Plant are equipped with a hand brake.

false 8. You should try to repair any problems you find during the pre-work check of the forklift truck.

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True 1. A forklift truck steers with its rear wheels, not its front wheels like your car.

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True 3. When traveling backward, the rear wheels should pass the corner and the front wheels should reach the corner before you start turning the steering wheel to make a turn.

True 4. A forklift truck operator must always watch the rear swing of the truck as well as the front swing of the load.

True 5. A forklift truck is much harder to steer when the forks are loaded.

True 6. A forklift truck operator should always travel with the forks four to six inches above the ground.

True 7. An operator should always inspect a load before he attempts to make a lift.

True 8. When picking up a load with a forklift truck, always approach the load squarely.

True 9. The forks should be spaced as widely as possible according to the load width and equally spaced form the sides of the carrigae.

False 10. At times, it might become necessary to make a lift with only one fork.

False 11. At times, it might also become necessary to "pick up short", that is pick up a load with only part of your forks.

True 12. An operator should never put his head, hands or feet out of the truck cage.

True 13. Only the small Hyster forklift should ever be carried in the plant's elevators.

False 14. It is better to drive forward up a ramp when your truck is empty.

True 15. You should drive forward up a ramp and backwards down a ramp when your forks are loaded.

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False 16. Always cross railroad tracks at a 45 degree angle.

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True 18. Before depositing a load, the operator should take the time to inspect the place where he is going to unload.

True 19. You should never use full back tilt when high stacking. The safest condition is when the top of the mast is only a foot to 18 inches back from vertical.

True 20. If you have to leave the fork truck unattended for even a short time, you should lower the forks and turn off the engine.

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True 9. It is O.K. for an employee to ride to a work site if he is riding in a worklift.

True 10. Unloading a trash dumpster should be done with forklift mast straight up, not tilted forward or backward.

C. E. Kown

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FROSSARD

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LEAD EXPOSURE TRAINING

-TEST, 1981-

William Nails
NAME

DEPARTMENT

6/11/81
DATE

(1) The eight-hour exposure limit for lead is 50 micrograms of lead per cubic meter of air.

(2) The exposure limit for lead is lowered if you work more than eight (8) hours in a day. True(✓) False(✓)

(3) When working with or around lead, you should wash your hands, arms and face (Circle best answer: a, b, c, or d):

a. Before you leave work.
b. Before eating, drinking, smoking, or using any cosmetics.
c. Twice each shift.
d. After eating, drinking, or smoking.

(4) You are allowed to clean lead materials from your clothing with compressed air, provided the air hose is equipped with a safety nozzle. True(✓) False(✓)

(5) Lead raw materials used in the plant are: (Choose a, b, c, or d)

a. Liquids
b. Solids and Liquids
c. Powders (Mostly white ones).
d. Gases

(6) MSA "Dustfoe 66" dust masks are approved for use while charging blenders and working in the Color Weigh Room. True(✓) False(✓)

(7) 3M "Airhat" respirators are approved for use while charging blenders, working in the Color Weigh Room or otherwise handling lead. True(✓) False( )

(8) Excessive amounts of lead in the body can cause serious harm, including death. True(✓) False( )

(9) The best medical test for blood levels in the body is the blood lead test. True(✓) False(✓)

(10) Excessive amounts of lead in the body can result in a wide variety of symptoms. True(✓) False( )

(11) A worker who is handling lead has no way of controlling his lead exposure. True( ) False(✓)

TEST CONTINUED ON BACK

(12) The lead materials used in the plant are not absorbed through the skin. True(✓) False( )

(13) The use of compressed air for cleaning lead contaminated dusts is prohibited. True(✓) False( )

(14) Lead used in this plant can enter the body by (Circle a, b, c, d, or e.):

a. Breathing
b. Swallowing
c. Absorbing through the skin.
d. All of the above.
e. a & b only.

(15) Overhead vent fans and exhaust hoods must be kept running when making compound or dry blend. True(✓) False( )

(16) You are permitted to take food, drinks, etc. into lead work areas, provided you keep them covered up to prevent lead contamination. True( ) False(✓)

(17) It is important to your health for you to create as little dust as possible when handling empty lead containers such as bags. True(✓) False( )

(18) You must clean and test your 3M Airhat at least daily, at the end or the beginning of your shift. True(✓) False( )

(19) If you can't see any lead dust on your hands or clothing, you can be sure there's not enough on you to worry about. True( ) False(✓)

(20) Responsibility for controlling employee exposure to lead rests on: (Choose a, b, c, d, e, or f)

a. The Company
b. The Employee
c. The Environmental Protection Agency (EPA)
d. Both a. & c.
e. Both a. & b.
f. Both b. & c.

A

15

LEAD EXPOSURE TRAINING

-TEST, 1981-

Charlotte A Bowe
NAME

DEPARTMENT

June 11/81
DATE

(1) The eight-hour exposure limit for lead is 50 micrograms of lead per cubic meter of air.

(2) The exposure limit for lead is lowered if you work more than eight (8) hours in a day. True(X) False( )

(3) When working with or around lead, you should wash your hands, arms and face (Circle best answer: a, b, c, or d):

a. Before you leave work.
(b) Before eating, drinking, smoking, or using any cosmetics.
c. Twice each shift.
d. After eating, drinking, or smoking.

(4) You are allowed to clean lead materials from your clothing with compressed air, provided the air hose is equipped with a safety nozzle. True( ) False(X)

(5) Lead raw materials used in the plant are: (Choose a, b, c, or d)

a. Liquids
b. Solids and Liquids
(c) Powders (Mostly white ones).
d. Gases

(6) MSA "Dustfoe 66" dust masks are approved for use while charging blenders and working in the Color Weigh Room. True( ) False(X)

(7) 3M "Airhat" respirators are approved for use while charging blenders, working in the Color Weigh Room or otherwise handling lead. True(X) False( )

(8) Excessive amounts of lead in the body can cause serious harm, including death. True(X) False( )

(9) The best medical test for blood levels in the body is the blood lead test. True( ) False(X)

(10) Excessive amounts of lead in the body can result in a wide variety of symptoms. True(X) False( )

(11) A worker who is handling lead has no way of controlling his lead exposure. True( ) False(X)

TEST CONTINUED ON BACK

(12) The lead materials used in the plant are not absorbed through the skin. True(X) False( )

(13) The use of compressed air for cleaning lead contaminated dusts is prohibited. True(X) False( )

(14) Lead used in this plant can enter the body by (Circle a, b, c, d, or e.):

a. Breathing
b. Swallowing
c. Absorbing through the skin.
d. All of the above.
e. a & b only.

(15) Overhead vent fans and exhaust hoods must be kept running when making compound or dry blend. True(X) False( )

(16) You are permitted to take food, drinks, etc. into lead work areas, provided you keep them covered up to prevent lead contamination. True(X) False( )

(17) It is important to your health for you to create as little dust as possible when handling empty lead containers such as bags. True(X) False( )

(18) You must clean and test your 3M Airhat at least daily, at the end or the beginning of your shift. True(X) False( )

(19) If you can't see any lead dust on your hands or clothing, you can be sure there's not enough on you to worry about. True( ) False( )

(20) Responsibility for controlling employee exposure to lead rests on: (Choose a, b, c, d, e, or f)

a. The Company
b. The Employee
c. The Environmental Protection Agency (EPA)
d. Both a. & c.
e. Both a. & b.
f. Both b. & c.

A

95

LEAD EXPOSURE TRAINING

-TEST, 1981-

NAME Sherrie Joe Hallow DEPARTMENT _____ DATE June 11, 81

(1) The eight-hour exposure limit for lead is 50 micrograms of lead per cubic meter of air.

(2) The exposure limit for lead is lowered if you work more than eight (8) hours in a day. True(✓) False( )

(3) When working with or around lead, you should wash your hands, arms and face (Circle best answer: a, b, c, or d):

a. Before you leave work.
b. Before eating, drinking, smoking, or using any cosmetics.
c. Twice each shift.
d. After eating, drinking, or smoking.

(4) You are allowed to clean lead materials from your clothing with compressed air, provided the air hose is equipped with a safety nozzle. True( ) False(X)

(5) Lead raw materials used in the plant are: (Choose a, b, c, or d)

a. Liquids
b. Solids and Liquids
c. Powders (Mostly white ones).
d. Gases

(6) MSA "Dustfoe 66" dust masks are approved for use while charging blenders and working in the Color Weigh Room. True( ) False(X)

(7) 3M "Airhat" respirators are approved for use while charging blenders, working in the Color Weigh Room or otherwise handling lead. True(X) False( )

(8) Excessive amounts of lead in the body can cause serious harm, including death. True(X) False( )

(9) The best medical test for blood levels in the body is the blood lead test. True(X) False( )

(10) Excessive amounts of lead in the body can result in a wide variety of symptoms. True(X) False( )

(11) A worker who is handling lead has no way of controlling his lead exposure. True( ) False(X)

TEST CONTINUED ON BACK

(12) The lead materials used in the plant are not absorbed through the skin. True(✓) False( )

(13) The use of compressed air for cleaning lead contaminated dusts is prohibited. True( ) False(✓)

(14) Lead used in this plant can enter the body by (Circle a, b, c, d, or e.):

a. Breathing
b. Swallowing
c. Absorbing through the skin.
d. All of the above.
e. a & b only.

(15) Overhead vent fans and exhaust hoods must be kept running when making compound or dry blend. True(✓) False( )

(16) You are permitted to take food, drinks, etc. into lead work areas, provided you keep them covered up to prevent lead contamination. True( ) False(✓)

(17) It is important to your health for you to create as little dust as possible when handling empty lead containers such as bags. True(✓) False( )

(18) You must clean and test your 3M Airhat at least daily, at the end or the beginning of your shift. True(✓) False( )

(19) If you can't see any lead dust on your hands or clothing, you can be sure there's not enough on you to worry about. True( ) False(✓)

(20) Responsibility for controlling employee exposure to lead rests on: (Choose a, b, c, d, e, or f)

a. The Company
b. The Employee
c. The Environmental Protection Agency (EPA)
d. Both a. & c.
e. Both a. & b.
f. Both b. & c.

95

A

LEAD EXPOSURE TRAINING

-TEST, 1981-

FROSSARD, JEFF — NAME
DEPARTMENT
JUN 11, 1981 — DATE

(1) The eight-hour exposure limit for lead is 50 micrograms of lead per cubic meter of air.

(2) The exposure limit for lead is lowered if you work more than eight (8) hours in a day. True(✓) False( )

(3) When working with or around lead, you should wash your hands, arms and face (Circle best answer: a, b, c, or d):

a. Before you leave work.
b. Before eating, drinking, smoking, or using any cosmetics.
c. Twice each shift.
d. After eating, drinking, or smoking.

(4) You are allowed to clean lead materials from your clothing with compressed air, provided the air hose is equipped with a safety nozzle. True( ) False(✓)

(5) Lead raw materials used in the plant are: (Choose a, b, c, or d)

a. Liquids
b. Solids and Liquids
c. Powders (Mostly white ones).
d. Gases

(6) MSA "Dustfoe 66" dust masks are approved for use while charging blenders and working in the Color Weigh Room. True( ) False(✓)

(7) 3M "Airhat" respirators are approved for use while charging blenders, working in the Color Weigh Room or otherwise handling lead. True(✓) False( )

(8) Excessive amounts of lead in the body can cause serious harm, including death. True(✓) False( )

(9) The best medical test for blood levels in the body is the blood lead test. True(✓) False( )

(10) Excessive amounts of lead in the body can result in a wide variety of symptoms. True(✓) False( )

(11) A worker who is handling lead has no way of controlling his lead exposure. True( ) False(✓)

TEST CONTINUED ON BACK

(12) The lead materials used in the plant are not absorbed through the skin. True(✓) False( )

(13) The use of compressed air for cleaning lead contaminated dusts is prohibited. True(✓) False( )

(14) Lead used in this plant can enter the body by (Circle a, b, c, d, or e.):

a. Breathing
b. Swallowing
c. Absorbing through the skin.
d. All of the above.
e. a & b only.

(15) Overhead vent fans and exhaust hoods must be kept running when making compound or dry blend. True(✓) False( )

(16) You are permitted to take food, drinks, etc. into lead work areas, provided you keep them covered up to prevent lead contamination. True( ) False(✓)

(17) It is important to your health for you to create as little dust as possible when handling empty lead containers such as bags. True(✓) False( )

(18) You must clean and ~~test your 3M Airhat~~ at least daily, at the end or the beginning of your shift. True(✓) False( )

(19) If you can't see any lead dust on your hands or clothing, you can be sure there's not enough on you to worry about. True( ) False(✓)

(20) Responsibility for controlling employee exposure to lead rests on: (Choose a, b, c, d, e, or f)

a. The Company
b. The Employee
c. The Environmental Protection Agency (EPA)
d. Both a. & c.
e. Both a. & b.
f. Both b. & c.

A

100

LEAD EXPOSURE TRAINING

-TEST, 1981-

Mark Dixon
NAME

DEPARTMENT

June 11, 1981
DATE

(1) The eight-hour exposure limit for lead is 50 micrograms of lead per cubic meter of air.

(2) The exposure limit for lead is lowered if you work more than eight (8) hours in a day. True(✓) False( )

(3) When working with or around lead, you should wash your hands, arms and face (Circle best answer: a, b, c, or d):

a. Before you leave work.
b. Before eating, drinking, smoking, or using any cosmetics.
c. Twice each shift.
d. After eating, drinking, or smoking.

(4) You are allowed to clean lead materials from your clothing with compressed air, provided the air hose is equipped with a safety nozzle. True( ) False(✓)

(5) Lead raw materials used in the plant are: (Choose a, b, c, or d)

a. Liquids
b. Solids and Liquids
c. Powders (Mostly white ones).
d. Gases

(6) MSA "Dustfoe 66" dust masks are approved for use while charging blenders and working in the Color Weigh Room. True( ) False(✓)

(7) 3M "Airhat" respirators are approved for use while charging blenders, working in the Color Weigh Room or otherwise handling lead. True(✓) False( )

(8) Excessive amounts of lead in the body can cause serious harm, including death. True(✓) False( )

(9) The best medical test for blood levels in the body is the blood lead test. True(✓) False( )

(10) Excessive amounts of lead in the body can result in a wide variety of symptoms. True(✓) False( )

(11) A worker who is handling lead has no way of controlling his lead exposure. True( ) False(✓)

TEST CONTINUED ON BACK

(12) The lead materials used in the plant are not absorbed through the skin. True(✓) False( )

(13) The use of compressed air for cleaning lead contaminated dusts is prohibited. True(✓) False( )

(14) Lead used in this plant can enter the body by (Circle a, b, c, d, or e.):

a. Breathing
b. Swallowing
c. Absorbing through the skin.
d. All of the above.
e. a & b only.

(15) Overhead vent fans and exhaust hoods must be kept running when making compound or dry blend. True(✓) False( )

(16) You are permitted to take food, drinks, etc. into lead work areas, provided you keep them covered up to prevent lead contamination. True( ) False(✓)

(17) It is important to your health for you to create as little dust as possible when handling empty lead containers such as bags. True(✓) False( )

(18) You must clean and test your 3M Airhat at least daily, at the end or the beginning of your shift. True(✓) False( )

(19) If you can't see any lead dust on your hands or clothing, you can be sure there's not enough on you to worry about. True( ) False(✓)

(20) Responsibility for controlling employee exposure to lead rests on: (Choose a, b, c, d, e, or f)

a. The Company
b. The Employee
c. The Environmental Protection Agency (EPA)
d. Both a. & c.
e. Both a. & b.
f. Both b. & c.

VCM EXPOSURE TRAINING
TEST, 1981

85

A

NAME Hodie Joe Hollis DEPARTMENT DATE June 16, 81

1. The eight-hour exposure limit for VCM is 1 parts per million (average).

2. The 15-minute exposure limit for VCM is 0.5 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ___ True ✓ False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. ✓ True ___ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. ✓ True ___ False

7. VCM is a colorless gas at normal temperature and pressure. ✓ True ___ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. ✓ True ___ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. ✓ True ___ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. ✓ True ___ False

11. Our Honeywell continuous monitors alarm when 1 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. ✓ True ___ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. ✓ True ___ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. ___ True ✓ False

TEST CONTINUED ON BACK

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger. ✓ True ____ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations. ✓ True ____ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations. ✓ True ____ False

19. Breathing high concentrations of VCM can cause you to pass out. ✓ True ____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible. ✓ True ____ False

VCM EXPOSURE TRAINING
TEST, 1981

75

A

NAME William Nails DEPARTMENT _____ DATE 6/11/81

1. The eight-hour exposure limit for VCM is 1.0 parts per million (average).

2. The 15-minute exposure limit for VCM is 0.5 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ____ True ✓ False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. ✓ True ____ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. ____ True ✓ False

7. VCM is a colorless gas at normal temperature and pressure. ✓ True ____ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. ✓ True ____ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. ✓ True ____ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. ✓ True ____ False

11. Our Honeywell continuous monitors alarm when 8 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. ✓ True ____ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. ✓ True ____ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. ____ True ✓ False

TEST CONTINUED ON BACK

All true

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger. ✓ True ____ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations. ✓ True ✓ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations. ✓ True ____ False

19. Breathing high concentrations of VCM can cause you to pass out. ✓ True ____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible. ✓ True ____ False

VCM EXPOSURE TRAINING
TEST, 1981

(70)

A

Charlotte A Lowe
NAME

DEPARTMENT

June 11/81
DATE

1. The eight-hour exposure limit for VCM is 1 parts per million (average).

2. The 15-minute exposure limit for VCM is 10 5 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ____ True X False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. X True ____ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. X True ____ False

7. VCM is a colorless gas at normal temperature and pressure. X True ____ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. X True ____ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. X True ____ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. X True ____ False

11. Our Honeywell continuous monitors alarm when 1 8 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. X True ____ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. X True ____ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. X True ____ False

TEST CONTINUED ON BACK

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger. X True ____ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations. X True ____ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations. X True ____ False

19. Breathing high concentrations of VCM can cause you to pass out. X True ____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible. X True ____ False

VCM EXPOSURE TRAINING
TEST, 1981

65

A

Cleveland Brownje
NAME

DEPARTMENT

6-11-81
DATE

1. The eight-hour exposure limit for VCM is 1.0 parts per million (average).

2. The 15-minute exposure limit for VCM is 10.0 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ____ True ✓ False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. ✓ True ____ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. ✓ True ____ False

7. VCM is a colorless gas at normal temperature and pressure. ____ True ____ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. ✓ True ____ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. ✓ True ____ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. ✓ True ____ False

11. Our Honeywell continuous monitors alarm when 10 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

    OK!

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. ✓ True ____ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. ____ True ____ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. ____ True ✓ False

TEST CONTINUED ON BACK

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger. ____ True ✓ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations. ____ True ✓ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations. ✓ True ____ False

19. Breathing high concentrations of VCM can cause you to pass out. ✓ True ____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible. ✓ True ____ False

A

VCM EXPOSURE TRAINING
TEST, 1981

90

Mark Dixon
NAME

DEPARTMENT

June 11, 1981
DATE

1. The eight-hour exposure limit for VCM is 1 parts per million (average).

2. The 15-minute exposure limit for VCM is 5 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ____ True ✓ False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. ✓ True ____ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. ____ True ✓ False

7. VCM is a colorless gas at normal temperature and pressure. ✓ True ____ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. ✓ True ____ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. ✓ True ____ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. ✓ True ____ False

11. Our Honeywell continuous monitors alarm when 1 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. ✓ True ____ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. ✓ True ____ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. ✓ True ____ False

TEST CONTINUED ON BACK

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger.

_____ True _____ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations.

_____ True _____ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations.

_____ True _____ False

19. Breathing high concentrations of VCM can cause you to pass out.

_____ True _____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible.

_____ True _____ False

VCM EXPOSURE TRAINING
TEST, 1981

75

A

FROSSARD, JEFF
NAME

DEPARTMENT

JUN 11, 1981
DATE

1. The eight-hour exposure limit for VCM is 1 parts per million (average).

2. The 15-minute exposure limit for VCM is 5 parts per million (average).

3. You are required to wear an approved respirator in VCM concentrations above:

   a. 1.0 ppm b. 0.5 ppm c. 10.0 ppm d. 5.0 ppm

4. VCM is not a fire hazard. ____ True ✓ False

5. Exposure to high levels of VCM over long periods of time may cause liver cancer and chromosome damage. ✓ True ____ False

6. If you can't smell any VCM, you can be sure that there is not enough around to hurt you. ✓ True ____ False

7. VCM is a colorless gas at normal temperature and pressure. ✓ True ____ False

8. Breathing the smoke from burning VCM can cause severe lung damage or death. ✓ True ____ False

9. Indicators of VCM leaks include "icing" and "hissing" sounds from processing equipment. ✓ True ____ False

10. You must stay out of VCM regulated areas except when you have a reason to enter them because of your work. ✓ True ____ False

11. Our Honeywell continuous monitors alarm when 10 ppm is detected in an area.

12. The VCM regulated areas in the plant are: (Circle a, b, c, or d)

    a. The old reactor area and the VCM tank farm

    b. The VCM compressor shed and the tops of the large slurry blend tanks.

    c. The two vinyl reactor areas, the tops of the large slurry blend tanks, the VCM compresser shed, and the tops of VCM tank cars.

    d. The VCM storage sphere, the recovery areas in both vinyl units, the tops of VCM tank cars, and the east half of the plasticizer tank farm.

13. You must wear protective clothing when doing any job where your skin might come in contact with liquid VCM. ✓ True ____ False

14. Any part of the body which is exposed to liquid VCM may be quickly and severely frostbiten. ✓ True ____ False

15. When a VCM emergency begins, all plant workers not directly involved with handling the situation should immediately assemble in a group just north of the guardhouse. ✓ True ____ False

TEST CONTINUED ON BACK

16. VCM cannister masks may be used in VCM concentrations below 10 ppm for up to 10 hours. They must not be used in higher concentrations except to escape from danger. ✓ True ____ False

17. Air-line respirators may be used in VCM concentrations of no more than 1000 ppm. They must not be used in unknown concentrations. ____ True ✓ False

18. Scott Air Paks must be worn in VCM concentrations above 1000 ppm. They must also be worn in unknown concentrations. ✓ True ____ False

19. Breathing high concentrations of VCM can cause you to pass out. ✓ True ____ False

20. One of the purposes of the medical surveillance program is to detect the symptoms of VCM related illness as early as possible. ✓ True ____ False