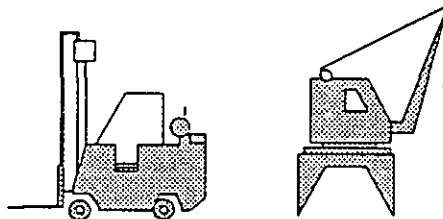
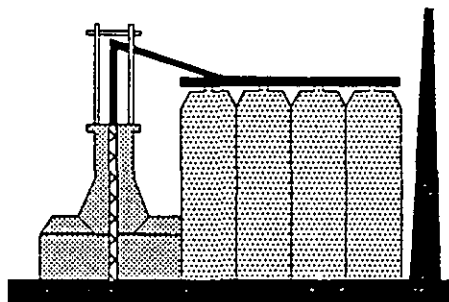


VISTA CHEMICAL HEALTH AND SAFETY AUDIT MANUAL



PREMIERE
JUL 1993

chuan

APPENDIX A

LIST OF MODULES

	ACCESS TO EMPLOYEE EXPOSURE AND MEDICAL RECORDS
MON	ACCIDENT INVESTIGATION
	ASBESTOS SAFETY
	CONTRACTOR SAFETY
	CONTROL OF HAZARDOUS ENERGY
	CRANE AND LIFTING SAFETY
	ELECTRICAL WORK PRACTICES
TUES	EMERGENCY RESPONSE
	ETHYLENE OXIDE
	FIRE PROTECTION
	FIRST AID
MON	GENERAL SAFETY PROMOTIONS
WED	GENERAL SAFETY RULES
TUES	HAZARD COMMUNICATION
	HAZWOPER
	HEALTH HAZARD IDENTIFICATION AND CONTROL
	LABORATORY SAFETY AND HEALTH
	LEADERSHIP AND ADMINISTRATION
	MECHANICAL SAFETY
	OCCUPATIONAL BENZENE EXPOSURE
TUES	OCCUPATIONAL LEAD EXPOSURE
	OCCUPATIONAL NOISE EXPOSURE
	RADIATION SAFETY
	RECORDKEEPING
TUES	RESPIRATORY PROTECTION
	SAFETY AND HEALTH TRAINING
	SAFETY CONTROL PERMITS
	VENTILATION
	VINYL CHLORIDE
	WALKING/WORKING SURFACES

ACCIDENT INVESTIGATION**SCOPE**

This audit module covers the methods and procedures by which the facility investigates accidents. Accidents may include first aid cases, OSHA recordable injuries, fires, near misses, or other incidents which may result in a loss. Investigation reports, communications, and follow-up are included.

NO APPLICABLE REGULATIONS/STANDARDS

None

TOTAL MODULE POINTS	<u>100</u>
TOTAL APPLICABLE POINTS	<u>100</u>
TOTAL POINTS SCORED	<u>82</u>

82%

ACCIDENT INVESTIGATION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	PROCEDURE		
D	1. Does the plant have a written accident investigation procedure? [A]	10	10
D I	2. Does the procedure apply to near-miss incidents with potential for significant results?	8	8
D	3. Does the procedure include reporting requirements to management or regulatory agencies?	5	5
D	4. Does the procedure address when the formation of teams to investigate accidents is required.	5	5
	INVESTIGATIONS		
D	5. Are investigations conducted, reviewed, and communicated in a timely manner?	5	5
F	6. Do investigations involve personnel from other departments?	5	5
F	7. Do investigations involve affected employees and witnesses either as a part of the team or as an interviewee?	5	5
D	8. Are investigations required for all OSHA recordable injuries and illnesses? [A]	5	5
	INVESTIGATION REPORTS		
D	9. Are written reports required for all investigations?	7	7
D	10. Do reports summarize events leading up to the accident?	8	8
D	11. Do reports list the primary or secondary causes of the accident?	7	7
	COMMUNICATIONS		
I	12. Are accident investigation findings reviewed with facility management?	5	5
I	13. Are accident investigations communicated to plant personnel?	5	5
D	14. Are procedures documented for sharing information learned from accidents with other Vista facilities, other industry, government and the community as appropriate.	5	0

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	ACTION ITEMS		
D	15. Are action items from investigations tracked so that completion may be documented?	5	0
D	16. Are estimated completion dates updated as required?	5	1
D	17. Are action items completed in a timely manner?	5	1

15

2

EMERGENCY RESPONSE**SCOPE**

This module includes items based on OSHA requirements, CAER and Responsible CARE elements, and the capability to respond to off-site transportation emergencies.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.38, Responsible CARE CAER Code, Vista CTIRP Manual

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

282

246

165

292

67.1%

67.1%

- d. medical responsibilities not defined
- e. Incomplete

EMERGENCY RESPONSE			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	EMPLOYEE EMERGENCY PLANS AND FIRE PREVENTION PLANS		
D 1910.38(a)(1)	1. Does the facility have a written emergency action plan? [A]	10	10
(a)(5)(iii)	a. Is it or applicable parts of the plan reviewed with new employees?	5	5
(a)(5)(iii)	b. Is the plan available to all employees for review?	5	0
D	2. Does the plan include: [A]		
(a)(2)(i) 0	a. Emergency escape procedures and escape routes.	3	3
(a)(2)(ii)	b. Procedures for personnel who must remain to operate critical equipment during an emergency.	3	1/4
(a)(2)(iii)	c. A method to account for all personnel after evacuation is complete.	3	3
(a)(2)(iv)	d. Rescue and medical duties for those employees who are to perform them.	3	2
(a)(2)(v)	e. Methods of reporting emergencies.	3	?
(a)(2)(vi)	f. Names or job titles of those who can further explain the plan.	3	1
FI	3. Does the facility maintain an alarm system that meets the following criteria?		
(a)(3)(i)	a. The alarm system must be capable of being perceived above ambient noise or light levels by all employees in the affected areas of the workplace. [A]	3	3
(a)(3)(ii)	b. Is the alarm distinctive and recognizable as a signal to evacuate or to perform designated actions under the emergency plan? [A]	3	3
	c. Have employees been trained in the methods of initiating an alarm?	3	3
	d. Are emergency phone numbers posted near telephones or in other conspicuous places?	3	0

50 36 3

47

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	e. Are alarm systems returned to service as soon as possible after malfunctions, testing, or repairs?	3	2
	f. Are alarm systems tested at least weekly and the tests documented?	3	0
	g. Are backup systems identified for periods when the alarm system is being repaired or out of service?	3	NA
	h. Are alarm systems installed after January, 1981, which are capable of being supervised, (automatically signal in the event of malfunction) are supervised such that they provide positive notification in the event of a system deficiency or failure? Are the supervisory circuits tested annually?	4	4
	i. Are activation devices conspicuous and accessible?	3	3
	j. Are alarm activation instructions posted?	3	3
D (b)(1)	4. Does the facility have a fire prevention plan? Does it cover the following a minimum? [A]		
(b)(2)(i)	a. A list of the major workplace fire hazards and their proper handling and storage procedures, potential ignition sources and their control procedures and the types of fire protection equipment or systems which can control a fire involving them.	3	0
(b)(2)(ii)	b. Names or job titles of those personnel responsible for maintenance of equipment and systems installed to prevent or control ignitions and fires.	3	0
(b)(2)(iii)	c. Names or job titles of those responsible for control of fuel source hazards.	3	0
D (b)(3)	5. Is a housekeeping procedure included in the fire prevention plan? [A]	5	0
I (b)(4)(ii)	6. Are all employees trained on the fire prevention plan on initial assignment and reassignment to a new area? [A]	10	0

43

13

3

40

9. Scope limited to spill activity only

10. Scope limited

11. a. Limited to spill activity

18. Scope limited to fire only

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D (b)(5)	7. Is there a maintenance plan or a PM plan in the fire prevention plan for equipment and systems installed on heat producing equipment (i.e., furnaces, incinerators, etc.) to prevent accidental ignition of combustible materials. [A]	5	0
	FACILITY EMERGENCY PLANS		
NOTE: Plant emergency plans often exceed and address many more topics than are addressed by the OSHA standard. The following module assumes that the elements addressed in the previous section have been met and is designed to meet the specific needs of our business.			
FI	8. Is the plant emergency plan readily available?	5	0
D	9. Does the plan include a statement of the scope and objectives of the plan?	5	2
D	10. Is the organization structure for emergency situation management clearly defined and responsibilities clearly defined?	10	5
D	11. Does the plan describe:		
	a. The emergency brigade?	3	1
	b. Plant alarm system?	3	3
	c. Emergency equipment?	3	2
D	12. Does the plan contain an emergency call-in procedure with a current list of personnel and telephone numbers?	5	5
D	13. Does the plan contain a current list of emergency organizations (non-plant) and their telephone numbers? (Including governmental agencies.)	5	5
D	14. Does the plan contain procedures for dealing with hazardous gas release.	5	0
D	15. Does the plan include procedures for dealing with adverse weather situations?	5	5
D	16. Does the plan include a description of the emergency communication systems for communicating both on and off sites?	5	0
D	17. Does the plan address emergency media communications?	10	10
D	18. Is there a set of condensed emergency instructions included in the plant emergency plan.	5	2

22 } premiere rep has limited CTIRP responsibilities
23 }
24 }

25 } no incidents yet
26 }

28. Attends annual LEPC mtg

30. No written statement on Fire Dept agreement

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	19. Are Mutual Aid or other similar groups identified along with a description of what services and resources they would supply?	10	10
	CHEMICAL TRANSPORTATION INCIDENT RESPONSE PLAN (CTIRP)		
F	20. Are all CTIRP manuals assigned to this location in the possession of the person they were issued to?	10	10
FD	21. Are the manuals current and up-to-date?	5	5
ID	22. Has the location's designated team members received transportation emergency response training as detailed in the CTIRP manual?	10	10
DI	23. Have team members been medically certified as per Section VIII of the CTIRP manual?	5	10
F	24. Has response equipment been provided as per the manual (Section IX)?	10	10
D	25. Are written incident reports on file involving this location?	5	10
ID	26. Are periodic post incident reviews conducted to improve responses or to attempt to identify and enumerate common problems which could cause transportation incidents?	5	10
DI	27. Are employees who may receive a transportation incident call trained in the CTIRP process?	5	5
	COMMUNITY AWARENESS AND EMERGENCY RESPONSE (CAER)		
D	28. Does this location belong to a local CAER, LEPC, Mutual Aid, or other similar group?	5	2
D	29. Does the location have a plan, agreed to with the local municipalities and community, to address emergency notification and response?	5	5
D	30. Does the plan include a statement of policy agreed to by all parties?	5	3
D	31. Does the plan identify each participant or groups of participants and define their responsibilities?	5	5

58 45 35
50

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	32. Does the plan include:		
	a. Evacuation plans?	5	5
	b. Shelter in place plans?	5	11/11
	c. Emergency communication systems for communicating with public agencies and surrounding commercial interests.	5	5
	d. Emergency telephone numbers.	5	5
	e. Transportation and pipeline emergency plans.	5	5
	f. Plans and systems for communicating information to the public.	5	5
ID	33. Are drills and critiques held regularly to test the plan?	5	5
D	34. Are MSDS's included in the plan?	5	0

11/6

30

5

35

GENERAL SAFETY PROMOTIONS**SCOPE**

This module includes elements of a safety program related to promotion and recognition of the program, off-the-job safety and employee involvement in the program.

NO REGULATIONS/STANDARDS APPLICABLE

TOTAL MODULE POINTS	<u>40</u>	
TOTAL APPLICABLE POINTS	<u>40</u>	30%
TOTAL POINTS SCORED	<u>12</u>	

GENERAL SAFETY PROMOTIONS			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	OFF-THE-JOB SAFETY		
I	1. Is off-the-job safety a regular safety meeting topic?	2✓	0
	SAFETY BULLETIN BOARDS		
F	2. Are safety bulletin boards in conspicuous locations?	2✓	2
F	3. Are boards maintained? (old notices, etc. removed/replaced on a regular basis)	2✓	2
	POSTERS, BANNERS, AND SIGNS		
FI	4. Are posters, banners, and/or signs used?	2✓	2
FI	5. Are they changed regularly?	2✓	2
FI	6. Are they in conspicuous areas?	2✓	2
	SAFETY ANNIVERSARIES		
I	7. Are employee safety anniversaries acknowledged along with service anniversaries?	1✓	1
I	8. Are plant/dept. safety milestones recognized?	1✓	1
	SAFETY ACTION REQUESTS		
F	9. Does the plant have a formal Safety Action Request program?	3✓	0
DI	10. Does the plant promote this system?	3✓	0
D	11. Does the system include assignment of specific responsibilities?	3✓	0
DI	12. Are employees informed of progress or completion on a regular basis?	3✓	0
I	13. Does management actively participate in the program?	3✓	0
	SAFETY TEAMS		
D	14. Does the plant have a formal Central Safety Committee or Safety Action Team?	4✓	0
DI	15. Does the Team meet regularly?	2✓	0
D	16. Does it publish and post minutes?	2✓	0
D	17. Are action items tracked?	3✓	0

40 12

GENERAL SAFETY RULES**SCOPE**

This audit module covers general safety rules. These are rules which could apply to most work in the plant. This module does not cover all general rules since many of them are also covered by other modules.

APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS	<u>100</u>
TOTAL APPLICABLE POINTS	<u>85</u>
TOTAL POINTS SCORED	<u>54</u>

63.5% ✓

2j: Rules for trucks only

GENERAL SAFETY RULES			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the Plant have a policy, procedure, or other written document which lists the Plant's general safety rules?	10	10
D	2. Does the plant have written rules or programs that address the following issues?		
	a. Employee safety responsibilities?	7	7
	b. Prohibited conduct (no use of illegal drugs or intoxicants, no weapons, no horseplay, etc)?	6	6
	c. Employee responsibility to correct and/or report unsafe conditions?	7	7
	d. Unauthorized operations of process equipment?	5	5
	e. Proper work attire and minimum protective equipment requirements (glasses, and safety footwear)?	6	6
	f. Smoking, eating, and beverage consumption?	5	5
	g. Housekeeping?	6	0
	h. The use, installation, and removal of signs and barricades?	5	0
	i. Proper lifting techniques?	5	0
	j. Rules for pedestrian and vehicle travel through the Plant?	5	2
	k. Proper personal hygiene?	7	7
	l. Rules for the proper use of ladders?	5	0
	m. Utility hose and coupling standardization?	10	NA
	If Applicable		
	n. Plant color coding?	4	4
	o. Office safety?	2	0
	p. Bicycle safety?	5	NA

54

65

HAZARD COMMUNICATION**SCOPE**

This audit module covers the items necessary to assess compliance with the federal OSHA HAZARD Communication Standard. The module includes items specific to plant labeling programs, hazard determination procedures, MSDS and label development and maintenance, and employee training.

APPLICABLE REGULATIONS/STANDARDS

OSHA 29 CFR 1910.1200

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

160
153 ✓
105 ✓

~~62.9%~~

69.

2.a. List not up to date

2.5. Procedure not effective in ensuring labling of all containers

2.6. Procedure incomplete re documentation

3. (Provided by TGG)

4.

HAZARD COMMUNICATION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	WRITTEN HAZARD COMMUNICATION PROGRAM		
D (e)(4)	1. Is a written Hazard Communication Program available for the site? [A]	10	10
D	2. Does the program include the following:		
(e)(1)(I)	a. A list of hazardous materials known to be present?	5	2
(e)(1)(II)	b. The methods the employer will use to inform employees of the hazards of chemical substances contained in unmarked pipes?	2	NA
(e)(1)(II)	c. The methods the employer will use to notify employees of the hazards of non-routine tasks?	2	2
(e)(2)(I)	d. The methods the employer will use to provide contractor employees a copy of the MSDS's for substances to which they may be exposed?	2	2
(e)(2)(II)	e. The methods the employer will use to inform contractor employees of any precautionary measures that need to be taken to avoid exposure in routine and emergency situations?	2	2
(e)(2)(III)	f. The system and procedures used for container labeling?	3	0
(e)(1)	g. The procedure for obtaining, preparing, and reviewing MSDS's for hazardous chemical on-site?	3	3
(e)(1)	h. The procedure and resources for accomplishing employee training?	3	2
	HAZARD DETERMINATION PROCEDURE		
D (d)(6)	3. Does the plant have a written hazard determination procedure?	5	5
D	4. Does the hazard determination procedure include:		
(d)(3) and (4)	a. The sources of information to be consulted?	2	2
	b. Criteria to be used to evaluate the studies and information deemed to be applicable?	2	2

10. Multiple weighroom area containers not labeled.

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	c. Procedures for reviewing information to update MSDS's if new and significant health information is found?	2 /	2 /
D	5. Does the procedure clearly address physical and health hazards?	2 /	2 /
D	6. Does the procedure clearly indicate who is responsible for doing the hazard determinations?	2 /	2 /
	LABELS AND OTHER FORMS OF WARNING		
D (e)(1)	7. Does a procedure exist describing the Inplant and "shipped container" labeling program?	5 /	0
D	8. Does the procedure for container labeling include:		
	a. Designation of person(s) responsible for labeling?	2 /	0
	b. Description of labeling system used?	2 /	0
	c. Description of acceptable alternatives to labeling of in-plant containers, if any?	2 /	0
	d. Procedures to review and update label information?	2 /	0
D (f)(5)	9. Have all in-plant containers requiring labels been identified?	5 /	0
F (f)(5)	10. Are containers requiring labeling labeled?	5 /	2 /
F	11. Do the labels contain:		
(f)(5)(i)	a. Identity of the hazardous chemical?	5 /	5
(f)(5)(ii)	b. Appropriate hazard warnings?	5 /	5
(f)(1)(iii)	c. Name and address on shipped containers:	3	3
D	12. Do plant procedures require incoming containers of hazardous chemicals to be inspected to assure labeling is in compliance with this standard?	3	3
D (f)(8)	13. Is there a procedure to relabel or reject incoming containers that are improperly labeled?	3	3

48 27

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	MATERIAL SAFETY DATA SHEETS		
F (g)(1)	14. Is a Material Safety Data Sheet available for each hazardous material produced, used or otherwise present on-site?	5/	5/
F (g)(1)	15. Are MSDS's available for process intermediates?	5/	N/A
D	16. Does the written program designate the person(s) responsible for obtaining and maintaining MSDS's?	5/	5/
D	17. Is the maintenance process for MSDS's described in the program?	3/	3/
D	18. Is there a process in place to <u>assure</u> MSDS's are obtained when a new chemical is purchased?	5/	0
D	19. Are new chemical purchases reviewed and approved to assure a hazard determination has been done?	3/	3/
FI (g)(8) and (10)	20. Are MSDS's accessible to workers for chemicals in their work areas at all times?	5/	5/
	EMPLOYEE INFORMATION AND TRAINING		
D (e)(1)	21. Is there a written/documented hazard communication training program?	10	10/
D	22. Does the training include:		
(h)(1)(i)	a. Requirements of the Hazard Communication Standard?	3/	3/
(h)(1)(ii)	b. Any operations in their work area where hazardous chemical are present?	3/	0
(h)(1)(iii)	c. The location and availability of the written hazard communication program?	3/	3/
(h)(2)(i)	d. Methods and observations to detect the presence or release of hazardous chemicals in the work area?	3/	0
(h)(2)(ii)	e. The physical and chemical hazards of the chemicals in the work area?	3/	0
(h)(2)(iii)	f. Measures employees can take to protect themselves from these hazards?	3/	0
(h)(2)(iv)	g. Explanation of the plant labeling systems?	3/	0
(h)(2)(iv)	h. Explanation of how to use MSDS's?	3/	3

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
(h)(2)(iv)	i. How to obtain and use appropriate hazard information?	3	3
	23. Is the training documented?	3	3

6

4

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OCCUPATIONAL LEAD EXPOSURE**SCOPE**

This audit module covers items necessary to assess compliance with the Federal OSHA Lead Standard. It includes items specific to exposure monitoring, exposure controls, employee training, medical surveillance, and housekeeping.

APPLICABLE REGULATIONS/STANDARDS

OSHA 29 CFR 1910.1025

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

90

73 ✓

61 ✓

43.6 ✓

OCCUPATIONAL LEAD EXPOSURE**SCOPE**

This audit module covers items necessary to assess compliance with the Federal OSHA Lead Standard. It includes items specific to exposure monitoring, exposure controls, employee training, medical surveillance, and housekeeping.

APPLICABLE REGULATIONS/STANDARDS

OSHA 29 CFR 1910.1025

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

90

73 ✓

61 ✓

43.6 ✓

e. No info available on analysis

OCCUPATIONAL LEAD EXPOSURE			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	EXPOSURE MONITORING		
D (d)(2)	1. Has an initial survey been made to determine employee exposure to lead?	1	1
D (d)(6)(iii)	2. Is sampling for jobs with exposures exceeding the PEL (50 $\mu\text{g}/\text{m}^3$) done on a quarterly basis?	1	NA
D (d)(6)(ii)	3. Is sampling for jobs with exposures exceeding the action level (30 $\mu\text{g}/\text{m}^3$) but below the PEL done at least every 6 months?	1	NA
D	4. Does the monitoring done include:		
(d)(1)(ii)	a. Full shift personal samples that include at least one sample for each shift for each job classification in each work area are taken?	2	NA
(d)(1)(ii)	b. Full shift personal samples representative of the employee's regular, daily exposure to lead are taken?	1	NA
(d)(8)(i)	c. Notification of employees in writing of their monitoring results within five working days of the receipt of the results?	1	1
(d)(8)(ii)	d. When the monitoring result indicates that an employee's exposure exceeded the PEL, does the written notice include a statement that the PEL was exceeded and a description of corrective measures to be taken?	1	NA
(d)(9)	e. Does the method of monitoring and analysis have an accuracy (to a confidence level of 95%) of not less than plus or minus 20 percent for airborne concentrations of lead equal to or greater than 30 micrograms of lead per cubic meter of air.	1	0
	METHODS OF COMPLIANCE		
FI (e)(1)	5. Have engineering and work practice controls been established to reduce employee exposures to or below the PEL?	2	2

5

4

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F (e)(2)	6. Are respirators provided when engineering and work practice controls fail to reduce employee exposure to or below the PEL?	1	1
DF (f)(2)(i)	7. Are respirators provided in accordance with the selection criteria found in the standard?	1	1
DI (f)(3)(ii)	8. Has qualitative or quantitative fit-testing been done for all employees required to wear respiratory protection?	1	1
D (e)(e)(i)	9. Is a written compliance program to reduce exposures to or below the PEL solely by means of engineering and work practice control established and implemented?	2	2
D	10. Does the written compliance program include:		
(e)(3)(ii)(A)	a. A description of each operation in which lead is emitted?	1	1
(e)(3)(ii)(B)	b. A description of the specific means to be used to achieve compliance?	1	1
(e)(3)(ii)(C)	c. A report of the technology considered in meeting the PEL?	X	NA
(e)(3)(ii)(D)	d. Air monitoring data which documents the source of lead emissions?	1	1
(e)(3)(ii)(E)	e. A detailed schedule for implementation of the program.	1	1
(e)(3)(ii)(F)	f. A work practice program which includes required protective work clothing and equipment, housekeeping, and hygiene facilities and practices?	1	1
(e)(3)(ii)(G) and (E)(6)	g. A job rotation schedule which includes the name or identification number of each affected employee and the duration and exposure levels at each job or work station where each affected employee is located when administrative controls are used to reduce employee TWA exposure to lead?	X	NA
D (e)(3)(iii)	11. Is the written compliance program available at the worksite?	1	0
D (e)(3)(iv)	12. Is the written compliance program revised and updated every six months?	1	0

21. Container not completely cloths - dirty
pants in open repair container

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI (e)(5)(I)	13. When ventilation is used to control lead exposure, are measurements which demonstrate the effectiveness of the system made at least every three months?	1	0
	14. If air from exhaust ventilation is recirculated into the workplace:		
(e)(5)(II)(A)	a. Does the system have a high efficiency filter and a backup filter?	X	NA
(e)(5)(II)(B)	b. Are controls to monitor the concentration of lead in the return air and to bypass the recirculation system automatically if it fails installed, used, and maintained?	X	NA
DI (e)(6)	15. If administrative controls are used to reduce employee exposure to lead, has a job rotation schedule been established and implemented?	X	NA
	PROTECTIVE WORK CLOTHING AND EQUIPMENT		
FI (g)(1)	16. Are employees exposed to lead above the PEL or where the possibility of skin or eye irritation exists provided with appropriate protective work clothing and equipment and is its use assured where required?	2	2
F (g)(2)(i)	17. Is protective clothing provided in a clean and dry condition at least weekly, and daily to employees whose exposure levels are over 200 micrograms of lead per cubic meter of air?	1	1
FI (g)(2)(ii)	18. Is cleaning, laundering, or disposal of protective clothing provided for employees?	1	1
FI (g)(2)(iii)	19. Is protective clothing and equipment repaired or replaced as needed to maintain their effectiveness?	1	1
FI (g)(2)(iv)	20. Is protective clothing removed at the completion of work shifts only in change rooms provided for that purpose?	1	1
F (g)(2)(v)	21. Is contaminated protective clothing that is to be cleaned, laundered, or disposed of placed in a closed container in the change room which prevents dispersion of lead outside the container?	1	0

25. Some dusting observed

27. Dry sweeping was observed

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D L	22. Is any person who cleans or launders protective clothing or equipment informed of the potential contamination and hazards?	1	1
F (g)(2)(vi)	23. Are containers of contaminated clothing an equipment labelled as follows: CAUTION: Clothing Contaminated With Lead. Do not remove dust by blowing or shaking, dispose of lead contaminated wash water in accordance with applicable local, state, or federal regulations.	1	1
DI (g)(2)(viii)	24. Is the removal of lead from protective clothing or equipment by blowing, shaking, or any other means which disperses lead into the air prohibited?	1	1
	HOUSEKEEPING		
F (h)(1)	25. Are all surfaces maintained as free as practicable of accumulations of lead?	2	1
DI (h)(2)(i)	26. Is using compressed air to clean floors and other surfaces where lead accumulates prohibited?	1	1
DI (h)(2)(ii)	27. Is shoveling, dry or wet sweeping, and brushing used only when other equally effective methods have been tried and proven ineffective?	1	0
FI (h)(3)	28. When vacuuming methods are used, are the vacuums used and emptied in a manner which minimizes the reentry of lead into the workplace?	1	1
	HYGIENE FACILITIES AND PRACTICES		
F (i)(1)	29. Are the presence or use of foods, beverages, tobacco products, and cosmetics prohibited in areas where lead is present?	1	1
F (i)(2)(i)	30. Are clean change rooms provided for employees exposed to lead above the PEL?	1	1
F (i)(2)(ii)	31. Are change rooms for lead workers equipped with separate storage facilities for protective clothing and equipment and for street clothes which prevent cross-contamination?	1	1
FI (i)(3)(ii)	32. Are showers provided for employees exposed to lead above the PEL?	1	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
I (i)(3)(i)	33. Do employees exposed to lead above the PEL shower at the end of each work shift?	1	1
FI (i)(3)(iii)	34. Are employees exposed to lead above the PEL prohibited from leaving the workplace wearing any piece of clothing or equipment worn during the work shift?	1	1
F (i)(4)(i)	35. Are lunchroom facilities readily available for employees exposed to lead above the PEL?	1	1
F (i)(4)(ii)	36. Are lunchroom facilities for lead workers supplied with a temperature controlled, positive pressure, filtered air supply?	1	1
FI (i)(4)(iii)	37. Are lead workers required to wash their hands and face prior to eating, drinking, smoking, or applying cosmetics?	1	1
FI (i)(4)(iv)	38. Are lead workers prohibited from entering lunchroom facilities with protective clothing or equipment before first removing surface lead dust by vacuuming or other cleaning methods?	1	1
F (i)(5)	39. Are an adequate number of lavatory facilities provided for lead workers?	1	1
	MEDICAL SURVEILLANCE		
Note: The medical surveillance and removal provisions of this standard are extensive. The administration of those provisions are often of a medical confidential nature and are not fully covered by this audit module. The Vista Medical Manager should be consulted for questions on these issues.			
D (j)(1)(i)	40. Has a medical surveillance program been instituted for all employees who are or may be exposed to lead above the action level for more than 30 days per year.	2	2
DI (j)(1)(ii)	41. Are all medical examinations and procedures performed under the supervision of a licensed physician?	1	1
D (j)(2)	42. Is biological monitoring done to determine blood lead and ZPP levels?	1	1
	MEDICAL REMOVAL PROTECTION		
DI (k)(1)	43. Is a temporary medical removal program practiced when blood lead levels are over the action level and a follow-up medical determination has indicated the need?	1	1
DI (k)(2)	44. Are employee benefits protected when medical removal has occurred?	1	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	EMPLOYEE INFORMATION AND TRAINING		
D (I)(1)(I)	45. Are all employees who work in areas in which there are potential exposures to lead at any level informed of Appendices A and B of the lead standard?	1	1
D (I)(1)(II)	46. Has a lead training program been instituted for all employees subject to lead exposure above the action level or for whom the possibility of eye or skin irritation exists?	2	2
D (I)(1)(IV)	47. Is lead training repeated at least annually?	1	1
D	48. Does the training include:		
(I)(1)(v)(A)	a. The content of 29 CFR 1910.1025 and its appendices?	1	1
(I)(1)(v)(B)	b. The specific nature of operations which could result in exposure above the action level?	1	1
(I)(1)(v)(C)	c. The purpose, proper selection, fitting, use, and limitations of respirators?	1	1
(I)(1)(v)(D)	d. The purpose and a description of the medical surveillance and removal program, and adverse health effects associated with excessive lead exposure?	1	1
(I)(1)(v)(E)	e. Engineering controls and work practices associated with employee job assignments?	1	1
(I)(1)(v)(F)	f. The contents of any compliance plans in effect?	1	1
(I)(1)(v)(G)	g. Instructions concerning the dangers of and the prohibition against use of chelating agents, except under the direction of a licensed physician?	1	0
DI (I)(2)(I)	49. Are copies of 29 CFR 1910.1025 and appendices made readily available to all affected employees?	1	0
	SIGNS		
F (m)(2)(i)	50. Are warning signs posted in each work area where the PEL is exceeded?	1	1
F (m)(2)(ii)	51. Do the warning signs read: WARNING: LEAD WORK AREA; POISON; NO SMOKING OR EATING	1	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F (m)(2)(ii)	52. Are lead warning signs illuminated and/or cleaned as necessary so the sign legends remain readily visible?	1	1
	RECORDKEEPING		
D (n)(1)(i)	53. Are exposure monitoring records maintained?	1	1
	54. Do the records contain:		
(n)(1)(ii)(A)	a. Date	1	1
(n)(1)(ii)(A)	b. Sample number	1	1
(n)(1)(ii)(A)	c. Duration	1	1
(n)(1)(ii)(A)	d. Results	1	1
(n)(1)(ii)(B)	e. Description of sampling and analytical method used	1	0
(n)(1)(ii)(C)	f. Description of respirators worn, if any	1	0
(n)(1)(ii)(D)	g. Name, SS#, and job description of the employee monitored and other job descriptions for which the exposure is representative.	1	0
	OBSERVATION OF MONITORING		
FI (o)(1)	55. Are affected employees or their designated representatives allowed to observe any monitoring of employee exposure to lead?	X	NA
FI (o)(2)(i)	56. Is protective clothing and equipment furnished to lead monitoring observers in areas where such equipment is required?	X	NA
DI (o)(2)(i)	57. Are lead monitoring observers required to use furnished protective clothing and equipment and to comply with all other applicable safety and health procedures while in the lead exposure areas?	Y	NA
DI	58. Are lead monitoring observers allowed to:		
(o)(2)(ii)(A)	a. Receive an explanation of the measurement procedures?	Y	NA
(o)(2)(ii)(B)	b. Observe all steps related to the monitoring of lead at the place of exposure?	Y	NA
(o)(2)(ii)(C)	c. Record the results obtained or receive copies of the results when returned from the laboratory?	Y	NA

RESPIRATORY PROTECTION**SCOPE**

This module includes items necessary to assess compliance with the Federal OSHA Respiratory Protection Standard. It includes items specific to written programs, respirator selection, respirator maintenance, and employee training.

APPLICABLE REGULATIONS/STANDARDS

OSHA 29 CFR 1910.134

TOTAL MODULE POINTS

143

TOTAL APPLICABLE POINTS

95 ✓

TOTAL POINTS SCORED

89 ✓

93

9490

- a) No Details in respiratory program document.
b) Detail does exist in general safety and
c) Lead programs.
- c) Storage not always used

RESPIRATORY PROTECTION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	WRITTEN PROGRAM		
D (e)(3)(f)(1)	1. Does a written Respiratory Protection Program exist? [A]	10	10
D	2. Does it include the following:		
(b)(1)	a. Written procedures governing the selection and use of respirators in the plant?	2	1
(b)(2)	b. Selection criteria for respirators based on hazards presented and workplace surveillance?	2	1
(b)(3)	c. Training requirements/policies?	2	1
(b)(5)	d. Process/Procedures for cleaning and disinfecting respirators?	2	2
(b)(6)	e. Provisions for storing respirators?	2	1
(b)(7)	f. Provisions and responsibilities for respirator inspection?	2	2
(b)(7)	g. Procedures for respirator maintenance?	2	2
(b)(9)	h. Process/procedures for determining effectiveness of the respirator program?	2	2
(b)(10)	i. Procedures/policy for medical certification?	2	2
F (b)(11)	3. Are all respirators used NIOSH or MSHA approved?	4	4
F (b)(11) D, I	4. Are all respirators used appropriate for the contaminants present in the work areas used?	4	4
D	5. Is there a written procedure/policy for determining air quality of supplied air?	X	NA
DI (d)(1)	6. Is the air quality of any air used for supplied air respirators checked to determine if it meets Grade D criteria?	X	NA
D	7. Are the records of the breathing air quality evaluations maintained?	X	NA
F	8. If a compressor is used for supplied breathing air:		
(d)(2)(ii)	a. Is the air intake in a contaminant free area?	X	1/4

34

32

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
(d)(2)(ii)	b. Is there an air receiver of sufficient capacity to allow respirator users to escape in the event of compressor failure?	2	NA
(d)(2)(ii)	c. Does the compressor have alarms to indicate failure and/or overheating?	2	NA
	d. If the compressor is oil-lubricated, are CO levels checked frequently?	4	NA
F (d)(2)(ii)	e. Is the compressor situated so as to avoid entry of contaminated air into the system?	2	NA
FD (d)(2)(ii)	f. Are in-line air purifying sorbent beds and filters installed and maintained?	2	NA
F (d)(3)	9. Are breathing air line couplings incompatible with outlets for other gas systems?	4	NA
F (d)(4) (cylinders)	10. Are all breathing air cylinders, and outlets clearly marked or labeled?	4	NA
D (e)(1-2)	11. Is there a listing of allowable respirators for known chemical hazards?	2	2
D (e)(1-2)	12. Does the list include respiratory protection requirements during emergency situations.	2	NA
D (e)(3)(i)-(iii)	13. Do procedures exist to assure that in areas where the wearer could be overcome by toxic or oxygen deficient atmospheres, an additional person (watch) is present and equipped to affect a rescue?	2	NA
D (e)(3)(iii)	14. Do procedures exist regarding the entry of Immediately Dangerous to Life and Health (IDLH) atmospheres?	2	NA
D (e)(3)(iii)	15. If so do they specify the use of a safety harness and safety lines to affect rescues of affected persons?	2	NA
D (e)(5)	16. Is there a formal respirator training program?	10	10
I and D	17. Are employees trained prior to assignment to a job that requires respirator use?	4	4
D (e)(5)	18. Does the training include:		
	a. Selection?	2	2

22. Frequency of maintenance is not definitive

27. Storage area not well maintained & fully used

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	b. Use?	2	2
	c. Maintenance?	2	2
	d. Fit-testing?	2	2
	e. Inspection procedures?	2	2
D	19. Are records of the training kept?	4	4
D (e)(5)(i)	20. Does the plant have a respirator seal policy that includes facial hair, glasses and other respirator sealing obstructions?	4	4
F (e)(5)(i) D	21. Is the policy enforced?	4	4
D (f)(1)	22. Is there a written procedure for inspection maintenance and care of respirators?	2	1
D	23. Is the responsibility for inspection and maintenance clearly stated?	2	2
I	24. Are those personnel required to maintain respirators qualified by training to do so?	2	2
DI (f)(2)(i) and (ii)	25. Are emergency use respirators and other self-contained units inspected on at least a monthly basis and after each use?	✓	NA
D (f)(2)(iv)	26. Are records of these inspections kept?	✓	NA
FI	27. Are facilities/supplies made available for cleaning and storing respirators?	2	1
D	28. Have all respirator wearer's been medically certified to wear the equipment required to do their jobs?	5	5
D	29. Has the plant determined who the "respirator wearers" are?	2	2
D	30. Does the plant have written fit-testing protocols?	3	3
D	31. Are records of fit-testing kept?	3	3

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ACCESS TO EMPLOYEE EXPOSURE AND MEDICAL RECORDS**SCOPE**

This module contains items necessary to assess compliance with the OSHA standard for Access to Employee Medical and Exposure Records. It includes recordkeeping, notification, and employer response time items.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.20

TOTAL MODULE POINTS

40

TOTAL APPLICABLE POINTS

32

TOTAL POINTS SCORED

7

~~items the plant could~~
~~contact with the contractor~~

2290 ✓

1. Parts of this are mentioned in new employee orientation but not specific to process or 1910.20 STD.

5. See note 1 above

ACCESS TO EMPLOYEE EXPOSURE AND MEDICAL RECORDS			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D (g)	1. Does the plant have a program to notify employees of the procedures necessary to receive copies of their medical and exposure records?	8	2
DI (d)(i) and (d)(ii)	2. Are medical and exposure records maintained for the duration of employment plus 30 years?	2	2
DI (d)(iii)	3. Are all analysis (studies) using exposure or medical records preserved or maintained for 30 years?	2	2
I (e)	4. Are records provided within 15 days request after a written request?	5	NA
D (g)(ii)	5. Does the plant program designate a person or persons by name or position to contact for copies of exposure or medical records?	5	5 1
D (e)(2)(ii)(B)	6. Does the program require a specific written consent form from representatives of the employee requesting his/her medical records?	3	0
ID (g)	7. Are employees who may be exposed to toxic substances or harmful physical agents informed of the following at employment and annually thereafter?		
(g)(1)(i)	a. The existence and availability of any records covered by this standard.	3	0
(g)(1)(ii)	b. The person responsible for maintaining and providing access to records.	3	0
(g)(1)(iii)	c. Each employee's rights of access to these records.	3	0
I (g)(2)	8. Is a copy of this standard and appendices made available to employees on request?	3	0
D (d)(ii)(A)	9. Is all background information for analysis of exposure measurements kept for a minimum of one year?	3	NA

Identified
LAB. C-TEK, does
the analysis &
Reviews results!

ASBESTOS SAFETY**SCOPE**

This audit module covers those jobs which involve working with materials which contain asbestos. Typically these jobs include the removal of material which has been determined to contain asbestos. Material such as insulation, ceiling tiles, floor tiles, etc. may contain asbestos. Parts of this module also cover maintaining asbestos containing material in a manner which does not present an unacceptable risk to employees.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1926.58

TOTAL MODULE POINTS

TOTAL APPLICABLE POINTS

TOTAL POINTS SCORED

35 $\frac{140}{28}$ - plant can control
these items with
contractors

13

$\frac{11}{11}$

4690

3-1

3790

4. G.L.pps designated but not properly trained

ASBESTOS SAFETY			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the Plant have a written policy, procedure, or program which addresses how work with friable asbestos containing material will be conducted (Note: This procedure should cover particularly work practices, and does not necessarily need to cover managing asbestos containing material in a safe condition?)	6	0
D	2. Has the plant determined and documented where asbestos containing materials are likely to be present, and in what forms?	3	0
D	3. Does the plant have an asbestos management program which addresses the steps which will be taken to ensure asbestos containing materials are maintained in a manner which will not present an unacceptable hazard in the normal work environment (Note: This program may contain plans to systematically remove asbestos from the plant, safely contain asbestos that is in the plant until such time as it must be removed for normal maintenance activities, etc)?	6	0
D	4. Has the plant designated a properly trained person to act as the plant's "Competent Person"?	3	1
ID	5. Does the "Competent Person" perform or supervise the following?		
	a. Set up negative pressure enclosures?	✓	NA
	b. Ensure the integrity of the enclosure?	✓	NA
	c. Control entry to and exit from the enclosure?	✓	NA
	d. Supervise all employee asbestos exposure monitoring?	✓	NA
	e. Ensure that employees working with asbestos containing materials wear proper protective equipment?	✓	NA
	f. Ensure that employees follow all applicable safety precautions including the use of hygiene facilities?	✓	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	g. Ensure that asbestos workers are properly trained?	1	AA
	h. Ensure that any engineering controls are properly working?	1	AA
D	6. Has the plant developed a plan to ensure that people who are exposed to airborne concentrations of asbestos above the PEL (or excursion limit) are trained (and licensed if required), with records kept?	3	NA
ID	7. Does the plant ensure that all governmental requirements for notices, permits, etc. are followed?	3	3
	WORK PRACTICES		
ID	8. Does the plant establish regulated areas around jobs which involve working with asbestos containing material?	2	2
D	9. Do the plant's written procedures require restricted access to regulated areas to only those who are properly trained and protected?	2	E
FD	10. Are temporary regulated areas marked as follows: DANGER, ASBESTOS, CANCER AND LUNG DISEASE HAZARD AUTHORIZED PERSONNEL ONLY RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA	2	2
DI	11. Except for the collection of samples used to determine if a material contains asbestos and glove bag jobs, does the plant ensure that negative pressure enclosures are the primary control measure used during the removal of asbestos containing material?	4	NA
DI	12. When the use of negative pressure enclosures are not practical or feasible, does the Plant ensure that glove bag removal methods are used to remove asbestos containing material?	4	NA
DI	13. Is asbestos containing material wetted immediately prior to removal?	3	NA
DI	14. After removal, is the bare surface wire brushed, wiped down and tested for asbestos presence?	3	NA
DI	15. Are all exposed portions of asbestos containing material, that were not removed, encapsulated (or equivalent)?	3	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	16. Are the following activities prohibited?		
	a. Eating, drinking, and smoking in regulated areas?	1	1 NA
	b. Using high-speed abrasive disc saws that are not equipped with appropriate engineering controls on material that contains asbestos?	1	1 NA
	c. using compressed air to remove or clean away asbestos containing material?	1	1 NA
DI	17. Are workers required to take the following precautions when working with asbestos containing material?		
	a. Use of respiratory protection which provides at least the protection of a powered air purifying respirator?	1	NA
	b. Are contaminated protective equipment cleaned or disposed of?	1	NA
	c. Use of footed, hooded, impermeable, disposable coveralls (tyvek or equivalent)?	1	NA
	d. Use of rubber (or equivalent) gloves?	1	NA
	e. use of rubber (equivalent) boots?	1	NA
	f. Shower immediately after completing work with asbestos containing material?	1	NA
DI	18. Except for small scale short duration jobs, are decontamination areas established adjacent and attached to regulated areas?	3	NA
DI	19. Do decontamination areas have the following (Note: If the answer to question number 11 is "NO", then the answer to this question must be "NO" also.)?		
	a. A clean room with lockers and storage space for workers personal effects;	1	NA
	b. Shower room/area between the clean room and the equipment room;	1	NA
	c. Equipment room where contaminated protective clothing can be removed, and as needed, disposed of.	1	NA

23. Based on interview suspect material is handled
as if it was asbestos - but no written policy

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI	20. If vacuums are to be used during asbestos work, are they equipped with HEPA (high efficiency particulate air) filters?	2	NA
DI	21. Are all asbestos contaminated wastes disposed of in double 6-mil. plastic bags, or equivalent which are sealed and labeled?	2	NA
D	22. Are samples of materials that potentially could contain asbestos taken prior to the removal of the material?	3	NA
D	23. If insulation or other materials that could contain asbestos must be handled prior to being proven to be asbestos free, is it required to treat them like asbestos.	5	2
	AIR MONITORING		
D	24. During "asbestos work", does the plant conduct air monitoring in and around regulated areas to determine the airborne concentration of asbestos fibers?	3	3
D	25. Does the Plant conduct personnel air monitoring to determine the exposure level of employees who work with asbestos containing materials?	3	NA
D	26. Has the Plant conducted area and personnel air monitoring to determine the exposure level of employees in the normal working environment?	3	NA
D	27. Are employees notified, in writing, of their air monitoring results?	2	NA
D	28. Does the notification include:		
	a. Time and date of sample?	2	NA
	b. Sample results?	2	NA
	c. Any corrective actions to be taken?	2	NA
	TRAINING		
D	29. Are the workers who are expected to work with asbestos containing material given asbestos safety trained annually, with records kept?	4	NA
D	30. Does asbestos safety training cover:		
	a. Methods of recognizing asbestos?	2	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	b. The health effects associated with asbestos exposure?	2	NA
	c. The relationship between smoking and asbestos in producing lung cancer?	2	
	d. The type of work that could result in asbestos exposure, and the importance of control measures such as engineering controls, proper work practices, protective equipment, etc.	2	
	e. Respiratory protection (as required by 29 CFR 1910.134 the OSHA Respiratory Protection standard)?	2	
	f. Proper work practices and use of protective equipment?	2	
	g. The medical surveillance program requirements?	2	
	h. A review of applicable governmental asbestos regulations?	2	
	MEDICAL SURVEILLANCE PROGRAM		
D	31. Does the Plant have a documented medical surveillance program for asbestos workers, including a documented determination of which employees are covered by the program?	3	NA
DI	32. Are medical examinations provided prior to initial assignment of an employee to work with asbestos, and annually thereafter?	1	NA
D	33. Do the medical examinations include:		
	a. A medical and work history with special emphasis directed to the pulmonary cardiovascular, and gastrointestinal systems?	1	
	b. The standardized questionnaires from Appendix D of the Asbestos Standard?	1	
	c. A physical examination under the direction of a licensed physician?	1	
	d. A chest X-ray?	1	
	e. A pulmonary function test?	1	
D	34. Has the plant provided the examining physician(s) with:		

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	a. A copy of the OSHA asbestos standard and its appendices?	1	NA
	b. A description of the employee's duties (as they relate to asbestos exposure)?	1	
	c. The representative or anticipated exposure level?	1	
	d. A description of the personal protective and respiratory protective equipment the employee uses?	1	
	e. Information from past examination of the employee?	1	

CRANE AND LIFTING SAFETY**SCOPE**

This module covers the practices and procedures associated with the use of cranes, derricks, and cherry pickers. This module also covers equipment associated with their use such as rigging equipment and crane baskets used for personnel transportation. This module does not cover material handling equipment such as davits, come-a-longs, and hoists not used in conjunction with the use of a crane.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.179 through 29 CFR 1910.181

1910.179 - Overhead and Gantry Cranes

1910.180 - Crawler Locomotive and Truck Cranes

1910.181 - Derricks

29 CFR 1926.550(g)

Contractor ~~to use~~ cranes only ones used

TOTAL MODULE POINTS

155

TOTAL APPLICABLE POINTS

37

TOTAL POINTS SCORED

22

- Items the plant
could control with
contractor cranes

60%

CRANE AND LIFTING SAFETY			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	CRANE SAFETY PROGRAM		
D	1. Does the plant have a written crane safety program?	7	0
	CRANE USE		
F	1. Can crane operators demonstrate that they can read and understand load charts?	2	NA
FI	2. Are steps taken prior to any lift to ensure that, insofar as possible:		
180(h)(3)(i)(b)	a. The load is well secured and properly balanced in the sling or lifting device?	1	1
180(h)(3)(ii)(a)	b. The hoist rope is not kinked?	2	1
180(h)(3)(i)(a)	c. The crane is level?	2	1
180(h)(3)(ii)(c)	d. The hook is brought over the load in such a manner as to prevent swinging?	2	1
FI	3. When the crane is in operation, are the following precautions taken?		
180(h)(3)(iii)(a)	a. When lifting, lowering, or otherwise moving the load, care is taken that movement is in a slow controlled, cautious manner with no sudden movements of the crane or load?	4	1
180(h)(3)(iv)	b. Side loading of booms is limited to freely suspended loads, and the crane is not used to pull or drag a load?	2	1
180(h)(3)(vi)	c. Positive steps are taken to ensure that loads are not carried over people?	4	4
180(h)(3)(v)	d. People are not allowed to ride on loads?	4	4
180(h)(3)(ix)	e. Outriggers are fully extended and outrigger pads are used (unless the crane is only being used to transport a small load from one location to another)?	3	NA
	f. Outrigger pads are placed on solid footing and not placed over any void spaces (i.e., culverts)?	4	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	g. The services of a flagperson are utilized during lifts?	4	4
180(h)(4)(i)	h. When a load is suspended and not properly secured, the crane operators do not leave the crane's controls?	2	NA
	i. Positive steps are taken to ensure that people are kept away from accessible areas within the swing radius of the rear of the crane's rotating superstructure?	4	4
180(h)(3)(xvi)	j. Insofar as possible, tag lines are used on all lifts?	4	NA
FI	4. When a crane is required to travel while carrying a load, are the following precautions taken?		
	a. The load is tied off to prevent swinging?	3	NA
	b. The services of a flagperson are utilized (Note: Small shop cranes do not require a flagperson when traveling while carrying a load)?	3	3
FI	5. Insofar as possible, are crane booms lowered (or the load line anchored to a substantial structure, such as a stanchion) when the operator is not at the controls?	3	3
F 180(i)(2)	6. Are all cranes operated with their full amount of counterweight?	1	NA
F 180(j)	7. Are safe distances from electrical power lines maintained (Note: A safe distance from 50kV lines is at least 10 feet. For lines greater than 50kV, consult the OSHA regulation 29 CFR 1910.180(j)(1)(ii))?	2	1
FI	8. Is a person designated to watch for clearances when operating a crane around electric power lines?	2	1
FI	9. Are the proper hand signals utilized when directing the cranes operation, and are illustrations of these hand signals posted at the job site (an illustration of proper hand signals appears as an attachment to this checklist)?	3	1
D 180(i)(4)(ii)	10. Is the refueling of a crane prohibited if its engine is running?	1	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI	11. Is the use of a crane discontinued upon indications of dangerous weather, impending danger, or high winds (sustained winds of 25 mph)?	2	1 A
DI 180(h)(2)(i-ii)	12. Is it required that the load be attached to the hook by means of slings or other approved devices (i.e., the hoist rope will not be wrapped around the load)?	4	1
D	13. Have all crane operators received training in crane safety and lifting considerations, with records kept?	4	
DI	14. Are crane operators required to demonstrate themselves competent to operate each type of crane they will be operating, and records kept?	3	
D	15. Is there a list of qualified crane operators for the site (Note: If there are not full-time crane operators for the site, there must be proof that the qualifications of contract crane operators are verified)?	4	
CRANE CONSTRUCTION AND TESTING			
F	16. Are belts, gears, shafts, pulleys, sprockets, spindles, drums, fly wheels, chains, or other reciprocating, rotating or other moving parts or equipment guarded from contact by people?	3	
F	17. Are exhaust pipes properly guarded or insulated to prevent hazards to people?	3	
F	18. Do the crane baskets, that are intended to be used to transport personnel, meet the following requirements:		
g(4)(i)(A)	a. The crane basket and suspension system are designed by a qualified engineer, or person competent in structural design?	1	
g(4)(i)(B)	b. The suspension system is designed to minimize tipping?	1	
g(4)(ii)(B)	c. The crane basket has a grab rail installed inside the entire perimeter?	1	
g(4)(ii)(C)	d. Access gates are designed such that they cannot swing outward during hoisting?	1	
g(4)(ii)(D)	e. Access gates have restraining devices to prevent accidental opening?	1	

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
g(4)(ii)(E)	f. The crane baskets have enough head room for people to stand upright?	1	NA
g(4)(ii)(F)	g. In addition to the use of hard hats, the crane baskets are provided with overhead protection?	1	1
g(4)(ii)(G)	h. All rough edges on the basket are smoothed if they can come in contact with personnel?	1	1
g(4)(ii)(I)	i. The platform has the rated load capacity posted on it conspicuously?	1	1
F	19. Are guardrails, handholds, and steps provided on the cranes for easy and safe access to the car, cab, or if necessary, cab roof (Note: Platforms and walkways must have anti-skid surfaces)?	2	1
F	20. Is the fuel filler pipe located and positioned so as not to allow spill or overflow to run onto the engine, exhaust, or electrical equipment?	1	1
F 180(c)(2)	21. Is there a substantial and durable load rating chart with clearly legible letters and figures securely fastened to the crane cab (Note: This chart must be easily visible to the crane operator when seated at the controls)?	4	1
F	22. Are all crane hooks equipped with a safety latch?	3	1
D 180(e)(1)(iii)	23. Are certified production-crane test results maintained?	3	0
D 180(e)(2)(i)	24. Are records available which show that rated load tests for the crane have been performed as well as the test procedures used for the tests?	3	0
CRANE INSPECTIONS			
D 180(d)(3) and (6)	25. Are daily inspections of cranes conducted prior to operation of the crane, with records kept?	3	NA
D 180(d)(3) and (6)	26. Are monthly inspections of the cranes conducted, with records kept?	4	1
D 180(d)(3) and (6)	27. Are annual crane inspections conducted, with records kept?	4	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI	28. Are contracted cranes inspected upon arrival at the plant, with records kept?	2	0
DI	29. Are contracted cranes which operate in continuous service at the plant required to be inspected with the same frequency as Vista owned/leased cranes?	2	NA
DI	30. Is it a requirement that if defects which affect the safe operation of the crane, are discovered during an inspection, they are corrected prior to allowing the crane to continue operation in the plant?	2	NA
	CRANE BASKETS USED FOR PERSONNEL TRANSPORTATION		
D	31. Does the plant have written safety rules covering the use of crane baskets for transporting personnel?	2	
D 1926.550 g	32. Is the use of crane baskets for personnel transportation prohibited, except when the erection, use, and dismantling of conventional means of reaching the worksite, such as a ladder, stairway manlift, elevating work platform or scaffold would be more hazardous?	2	
DI g(4)(iv)	33. Are pre-lift load tests and trial lifts conducted prior to allowing anyone to ride in a crane basket?	1	
DI g(4)(iv)	34. Are pre-lift meetings held with those who are to ride in the crane basket, the crane operator, and others involved in the work for the purposes of explaining the work to be performed, witness the pre-lift, and discussing the safety precautions of the lift.	1	
DF g(3)(ii)	35. Does the plant ensure that any crane, which will be used to lift personnel in a crane basket, is equipped with an anti-two-blocking device?	2	NA
	CRITICAL LIFTS		
D	36. Has the plant established, and communicated to affected employees, a policy/procedure which defines which crane lifts will be considered as "critical" and the special precautions that will be taken?	1	NA
DI	37. Is a lifting checklist used for critical lifts?	3	

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 180(h)(1)(i)	38. Is the weight of the load determined to within 10%?	1	NA
D	39. Does the procedure address approval authorities for critical lifts?	2	
	OTHER		
F 180(i)(5)(i)	40. Are fire extinguishers mounted on all cranes?	2	
F 180(h)(3)(ix) (a)-(c)	41. Are crane pads strong enough to prevent crushing, free from defects, and of sufficient width and length to prevent shifting or toppling under load?	2	
F 180(i)(3)	42. Are the inside of crane cabs kept in a clean orderly manner, with loose items stored so as not to interfere with the crane's operation?	2	

HAZWOPER**SCOPE**

This module covers items necessary to assess compliance with the OSHA Hazwoper regulations. **THIS MODULE APPLIES DIFFERENTLY TO ALL FACILITIES, AND INSTRUCTIONS FOR AUDIT SECTION SELECTION AND SCORING FOLLOW.** The Hazardous Waste Operations and Emergency Response (HAZWOPER) module addresses emergency plans, training, medical surveillance, protective equipment, materials handling, and site control.

APPLICABLE REGULATIONS/STANDARDS

OSHA 1910.120-Hazardous Waste Operations and Emergency Response

Section I Scored

TOTAL MODULE POINTS		<u>200</u>
TOTAL APPLICABLE POINTS	114	<u>122</u>
TOTAL POINTS SCORED	94	<u>95</u>

83%

78%

HAZWOPER**APPLICATION**

The HAZWOPER standard requires different levels of compliance based on activities conducted at the facility. This module contains three sections based upon this standard. A facility may require the auditing of multiple sections or a single section. Total points for the module is 200. If multiple sections are audited, the total score will be possible score for the sections divided by the number of sections audited.

For example, if Sections I and II apply, the final score would be calculated as follows:

$$\text{Score (Section I)} + \text{Score (Section II)} + 2$$

The instructions for selection of module sections follows.

Instructions for Module Selection

1. Does the facility have clean-up operations required by a governmental body or other operations involving uncontrolled hazardous waste site?
If yes, then audit Section III.
2. Does the facility have corrective actions involving clean-up operations at a RCRA site?
If yes, then audit Section III.
3. Does the facility have voluntary clean-up operations at a site recognized by a governmental body as an uncontrolled hazardous waste site?
If yes, then audit Section III.
4. Does the facility have operations involving hazardous wastes conducted at treatment, storage, and disposal facilities pursuant to RCRA?
If yes, then audit Section II.
5. Does the facility have potential for releases of hazardous substances?
If yes, then audit Section I.

*

1. Suggest better organization of plan - i.e. SPCC plan is where all procedures exist - that may not be recognized as adequate or appropriate in all cases - Need specific HAZWOPER section
- 3 a. This has been done - Documented w/ hospital but not for Fire services (in the plan)
 - l. Records indicate it's done but it's not contained in written plans
 - k.
4. Not identified specifically as that
8. Lipps Designated as the Spill ~~and~~ Prevention Coordinator but not as HAZWOPER safety officer

HAZWOPER			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
SECTION I			
	EMERGENCY RESPONSE PLAN		
D 120(q)(1)	1. Does the facility have a written emergency response plan? [A]	2	2 * see note
FI 120(q)(1)	2. Is this plan available to employees and their representatives? [A]	2	2
D 120(q)(2)	3. Does the plan include the following:		
	a. Pre-emergency planning with outside parties?	2	1
	b. Personnel roles and lines of authority?	2	2
	c. Emergency communications?	2	2
	d. Emergency recognition and prevention?	2	2
	e. Safe distances and places of refuge?	2	2
	f. Site security and control?	2	2
	g. Evacuation routes and procedures?	2	2
	h. Decontamination?	2	0
Shift supervisors Required	i. First aid?	2	1
	j. Emergency alerting and response?	2	2
	k. Critique and follow-up?	2	1
	l. Personal protective equipment?	2	NA
D 120(q)(3)	4. Does the plan include use of the "Incident Command System"?	2	1
D 120(q)(3)	5. Does the plan address protective equipment used for firefighting?	2	NA
D 120(q)(3)	6. Does the plan address respiratory protection for emergencies?	2	NA
D 120(q)(3)	7. Does the plan require operations in hazardous areas to be performed in groups of two or more? [A]	2	0
D 120(q)(3)	8. Does the plan require a person to be designated as Safety Officer?	2	1

32

27

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 120(q)(3)	9. Does the Safety Officer have the written authority to suspend or modify operations when conditions exist that are Immediately Dangerous to Life and Health? [A]	2'	0
	SKILLED SUPPORT PERSONNEL		
D 120(q)(4)	10. Are procedures in place to address skilled support personnel (i.e. crane or backhoe operators) requirements for training and briefing if needed during an emergency?	3	NA
	TRAINING		
D	11. Does the facility have written requirements for personnel training?	2'	0
D	12. Do the these requirements designate which personnel are to receive training and to what level?	2'	0
DI 120(q)(6)	13. Are personnel, identified as "First Responder-Awareness Level", trained in the following:		
	a. Hazardous materials and their risks?	2'	2'
	b. Potential outcomes of emergencies?	2'	2'
	c. Hazardous materials recognition?	2'	2'
	d. Role of first responder?	2'	2'
	e. Emergency notifications?	2'	2'
DI 120(q)(6)	14. Are personnel, identified as "First Responder-Operations Level", trained in the following:		NA
	a. Hazard assessment?	2	1
	b. Selection and use of protective equipment?	2	1
	c. Basic hazardous materials terminology?	2	1
	d. Basic control and containment operations?	2	1
	e. Decontamination procedures?	2	1
	f. Standard operating procedures?	2	1
	g. Is the training a minimum of eight hours?	2	1

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI 120(q)(6)	15. Are personnel, identified as "Hazardous Materials Technicians", trained in the following:		AA
	a. Implementing emergency plan?	2	1
	b. Classification and identification of materials in the field?	2	1
	c. Incident command system?	2	1
	d. Selection and use of personal protective equipment?	2	1
	e. Hazard and risk assessment?	2	1
	f. Control and containment procedures?	2	1
	g. Decontamination procedures?	2	1
	h. Termination procedures?	2	1
	i. Basic toxicology and chemistry?	2	1
	j. Is the training at least 24 hours?	2	1
	k. Does training include First-Responder Operations level training?	2	1
DI 120(q)(6)	16. Are personnel, identified as "Hazardous Materials Specialists", training in the following:		AA
	a. Implementation of the local response plan?	2	1
	b. Identification and classification of unknown materials using advanced instrumentation?	2	1
	c. Knowledge of the State Emergency Plan?	2	1
	d. Selection and use of specialized protective equipment?	2	1
	e. In-depth hazard and risk evaluation?	2	1
	f. Specialized control and containment procedures?	2	1
	g. Implementation of decontamination procedures?	2	1
	h. Developing a site safety plan?	2	1
	i. Chemical, radiological, and toxicology terminology?	2	1
	j. Is the training at least 24 hours?	2	1

21. For lead standard compliance only - not haz waste

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	k. Does the training include Hazardous Material Technician training?	X	NA
DI 120(q)(6)	17. Are personnel, identified as "On Scene Commanders", trained in the following:		
	a. Implementing the Incident Command System?	2'	2'
	b. Implementing the Emergency Response Plan?	2'	2'
	c. Hazards of working in protective clothing?	2'	2'
	d. Implementing the Local Response Plan?	2'	2'
	e. Knowledge of the State Response Plan and Federal Regional Response Team?	2'	2'
	f. Decontamination procedures?	2'	2'
	g. Is the training at least 24 hours?	2'	2'
	h. Does training include First Responder-Operations Level Training?	2'	2'
DI 120(q)(7)	18. Do facility trainers have training in the subjects they are expected to teach?	X	NA
DI 120(q)(8)	19. Do personnel receive annual refresher training?	2'	2'
D 120(q)(8)	20. Are records kept of all training?	2'	2'
	MEDICAL SURVEILLANCE		
D	21. Does the facility have a written medical surveillance program? [A]	2'	1'
D	22. Does the facility have written procedures to address medical treatment for personnel who are injured in an emergency?	2'	0
DI 120(q)(9)	23. Are members of hazardous materials response teams or Hazardous Materials Specialists provided medical surveillance as follows:		
120(q)(3)	a. Physical examination prior to assignment?	2'	2'

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
120(f)(3)	b. Physical examination at least annually?	2	2
120(f)(3)	c. Physical examination at termination of employment or reassignment?	2	NA
120(f)(3)	d. Physical examination after exposure above permissible exposure limits in an emergency or when showing symptoms as such?	2	NA
120(f)(4)	e. Do physical examinations include a work history?	2	2
120(f)(4)	f. Do physical examinations include a fitness for duty?	2	2
120(f)(4)	g. Do physical examinations include an analysis of fitness for wearing protective equipment?	2	2 2
120(f)(4)	h. Is the content of the examination documented and determined by a physician?	2	2
120(f)(5)	i. Are medical examinations provided at no cost to the employee?	2	2
120(f)(6)	j. Is information about the employee's work, exposures, and protective equipment provided to the attending physician?	2	2
120(f)(7)	k. Is a physician's written opinion of the employee's fitness for duty, limitations, and respirator use obtained from the physician?	2	2
120(f)(7)	l. Are examination results made available to the employee?	2	2
120(f)(8)	m. Are records kept of physician's written opinions and employee's medical complaints related to exposure to hazardous substances?	2	2
PERSONAL PROTECTIVE EQUIPMENT			
D 120(g)(5)	24. Does the facility have a procedure for the selection and use of personal protective equipment? [A]	2	2
DI 120(g)(3)	25. Is protective equipment selected based on its performance and hazards of the facility?	2	2

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI 120(g)(3)	26. Are positive pressure SCBAs or positive pressure airline respirators with escape capability used in environments Immediately Dangerous to Life and Health?	$\frac{1}{2}$	NA
DI 120(g)(3)	27. Are totally encapsulating suits made available and used where skin absorption may result in death or serious injury?	$\frac{1}{2}$	NA
D 120(g)(5)	28. Are procedures in place for personal protective equipment containing the following:		
	a. Selection?	2	2
	b. Use and limitations?	2	2
	c. Mission duration?	2	2
	d. Maintenance and storage?	2	2
	e. Decontamination and disposal?	$\frac{1}{2}$	NA
	f. Donning and doffing?	2	2
	g. Training and fitting?	2	2
	h. Inspection procedures?	2	2
	i. Evaluation?	2	2
	j. Limitations?	2	2

14

14

HEALTH HAZARD IDENTIFICATION AND CONTROL**SCOPE**

This module includes items necessary to develop and maintain a thorough industrial hygiene program. It is meant to cover chemical and physical hazards not covered by a substance specific standard (i.e. benzene). The items in the module are based on professional judgement and recognized as good practice.

APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS		<u>98</u>
TOTAL APPLICABLE POINTS	81	<u>81</u>
TOTAL POINTS SCORED	44	<u>44</u>

54% ✓

98
81
17

1. No written determination done - but it does happen with new products - c.e. Vinyrene, Suprel

3 a. not all hazards sampled for

4.0 - see Notes 1 & 3a. above

* 6 Should consider routine monitoring for key elements (lead, noise) over and above regulatory requirements. This is important for several reasons:

HEALTH HAZARD IDENTIFICATION AND CONTROL

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI	1. Has an evaluation of potential health and physical hazards that may exist at the plant been done?	5	2
NOTE: This is in addition to substance specific standards.			
D	2. Is this determination documented?	5	0
D	3. Did the evaluation include:		
	a. Chemical exposure hazards?	5	3
	b. Noise hazards?	4	4
	c. Radiation hazards?	4	NA
	d. Illumination levels in work areas?	4	0
	e. Heat stress?	4	0
	f. Biological hazards?	4	NA
D	4. Have the hazards identified been evaluated?	10	5
DI	5. Did the evaluation include one or more of the following:		
	a. Personal monitoring?	3	3
	b. Area monitoring?	3	3
	c. Direct reading instrumentation?	2	2
	d. Review of fixed-point monitoring information available?	2	NA
	e. Documented qualitative assessment?	2	0
D	6. Does the plant establish an annual sampling or monitoring schedule?	5	0 *
D	7. Was the previous year's sampling schedule completed? (Partial score is possible.)	5	0
D	8. Did monitoring of chemical exposures include short-term or ceiling evaluations where standards existed for those durations?	5	NA
D	9. Are employees notified in writing of sampling results?	4	4
D	10. Are overexposures evaluated and responses documented?	4	4

65

30

LO
cd
noise
New plant
evaluations
L.E. Super
Ving 2012

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	11. Did the analysis of any industrial hygiene samples done in-house include quality control?	✓	NA
D	12. Are all sampling instruments calibrated regularly?	5	5
DI	13. Are air sampling pumps and noise dosimeters calibrated before and after each use?	3	3
D	14. Are calibration records kept?	2	2
D	15. Are chain of custody procedures used for all non-direct reading sampling and analysis?	2	0
D	16. Are new projects and significant new chemical purchases evaluated to determine the need for monitoring?	4	4

14

14

LABORATORY SAFETY AND HEALTH**SCOPE**

Every laboratory may be different, but there are some rules which apply to most. This audit module covers the basics of a laboratory safety and health program.

APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS

TOTAL APPLICABLE POINTS

TOTAL POINTS SCORED

150

86

164

64-AA

64

74 9/16

* same as plants

2. Some contain precautions - plans to revise other standards, some of that will come with ISO modifications

LABORATORY SAFETY AND HEALTH			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	LABORATORY SAFETY AND HEALTH MANUALS		
D	① Does the plant have a laboratory safety and health manual or written laboratory safety and health procedures?	10	* 10
D	② Do laboratory analytical procedures address safety precautions and protective equipment needs?	3	1
	LABORATORY EMERGENCY PROCEDURES		
D	③ Does the plant have written laboratory emergency procedures?	5	* 5
	④ Does the laboratory's emergency procedures cover:		
D	a. Laboratory emergency alarms?	X	0 F
D	b. Fire procedures?	1	1
D	c. Evacuation procedures?	1	1
D	d. Power outage procedures?	1	0
D	e. Spill control and clean up procedures?	1	1
D	f. Emergency notification procedures?	1	1
D	g. First aid and medical emergency procedures (if different than the rest of the location?)	X	NA
D	h. Location and use of emergency showers and eye washes?	1	1
D/I	⑤ Have laboratory employees been trained in the elements of the laboratory emergency procedures (listed in #2 above), and records kept?	X	NA same as plant
D/I	⑥ Have laboratory personnel been trained in the use of applicable emergency equipment (fire extinguishers, spill clean up kits/ supplies, special personal protective equipment, etc.) and records kept?	3	* 3
D/F	⑦ Has the plant determined if any locations in the laboratory need fixed gas/vapor monitoring or fire extinguishing systems?	2	2

29

24

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F	8. Has the plant installed fixed gas/vapor monitoring systems and fire extinguishing systems where needed (Note: If the plant has determined that no fixed systems are needed in the laboratory, this question should be answered "N/A".)?	X	NA
D	9. Does the plant have written inspection and testing procedures for fixed gas/vapor monitoring and fire extinguishing systems in the laboratory (Note: If there are no systems in the laboratory, this questions should be answered "N/A")?	X	NA
F	10. Are laboratory emergency showers and eye wash stations located, or alarmed, such that when they are used, laboratory personnel quickly become aware and can summon emergency assistance?	X	NA
F	11. Are spill kits, or supplies, made readily available to laboratory personnel?	X	NA
F	12. Are laboratory exits clearly marked and unblocked?	2	2
PERSONAL PROTECTIVE EQUIPMENT			
D/F	13. Are safety glasses with side shields required, as a minimum, for all people who enter laboratory areas?	2	2
D/F	14. Has the plant established minimum footwear requirements for people who enter laboratory areas?	X	same as previous NA
D/F	15. Are laboratory employees required to wear chemical splash goggles while working with chemicals that would require them?	X	NA
F	16. Are chemical protective aprons or other protective clothing provided as needed for work with chemicals in the laboratory?	X	NA
F	17. Do laboratory personnel wear the required personal protective clothing?	5	5
F	18. Is respiratory protection provided as needed for work in the laboratory (i.e. dust mask respirators for work with dusts, "chemical" respirators for work with "chemicals" during tasks which cannot be performed inside of ventilation hoods, etc.)?	X	NA

27. Some methods do - others are
being developed

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F	19. Have laboratory employees been trained in the personal protective equipment requirements covered by questions 13 through 18 above?	4	* 4
	GENERAL LABORATORY SAFETY RULES		
D	20. Does the laboratory have written rules which cover proper laboratory housekeeping practices (i.e. "all spills must be cleaned up", etc.)?	2	2
D	21. Does the plant have written rules covering eating and drinking in the laboratory?	2	2
D	22. Does the plant have written rules covering smoking in the laboratory?	2	2
D/F	23. Does the plant prohibit the use of laboratory glassware for the consumption of food and beverage?	2	NA
D	24. Does the laboratory have written rules concerning the proper use and disposal of laboratory hypodermic needles?	2	NA
D/F	25. Does the laboratory prohibit the use of chipped or broken glassware?	2	NA
D	26. Do the laboratory safety and health rules address:		
D	a. The proper method of "testing by smell" of chemicals?	2	NA
	b. The proper use of pipettes (i.e. "use aspirator bulb or other vacuum source - not the mouth")?	2	NA
	c. Proper use and storage of compressed gas cylinders?	2	NA
D	27. Does the plant have written safety rules which cover hazards specific and unique to its laboratory, analytical tests, and chemicals?	2	1
D/I	28. Have laboratory personnel been trained in the general safety and health procedures covered by questions 20 through 27 above (with records kept)?	3	* 3
	CHEMICAL STORAGE		
F	29. Are flammable chemicals in the laboratory stored in a location that is:		
	a. Away from sources of ignition	2	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	b. Provided with only explosion proof wiring and electrical equipment?	☒	NA
	c. Adequately ventilated?	☒	NA
	d. Provided with fire extinguishing systems?	☒	NA
F	30. Are toxic and volatile chemicals stored in locations which are properly ventilated?	☒	NA
F	(31) Are laboratory chemical store rooms kept in a neat and orderly manner?	3	3
F	(32) Is the access to laboratory chemical storage areas restricted to laboratory/authorized personnel only, with signs posted?	2	NA
D/F	33. Has the laboratory evaluated the need for fixed gas/vapor detection systems in chemical storage areas?	☒	NA
F	34. If needed (per the evaluation mentioned in number 5 above), are chemical storage areas in the laboratory equipped with fixed gas/vapor detection systems?	☒	NA
D	(35) Do the laboratory safety and health rules/procedures cover the proper storage of chemicals?	2	0
D	(36) Have laboratory personnel been trained in the proper chemical storage precautions and procedures covered by questions 29 through 35 above?	☒	NA
LABORATORY CHEMICAL SAFETY INFORMATION AND TRAINING			
D	(37) Have laboratory personnel been trained in the hazards and safe use of hazardous chemicals they work with (i.e. benzene, vinyl chloride, etc.)?	3	* 3
D	38. Have laboratory personnel been trained in the hazards and safe use of corrosives?	☒	NA
D	39. Have laboratory personnel been trained in the hazards and safe use of flammable and combustible chemicals?	☒	NA
D	(40) Have laboratory personnel been trained in the hazards and safe use of toxic chemicals?	3	B*

11

9

42. Required but not documented

45. MSDS's only

46. Procedure to make it available but
no verification of reading etc. —

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	40. Have laboratory personnel been trained in the hazards and safe use of toxic chemicals?	3	
D	41. Have laboratory personnel been trained in the hazards and safe use of reactive and volatile chemicals?	3	NA
D/F	42. Does the plant require labels to be placed on all chemical containers in the laboratory?	2	1
D	43. Are the laboratory chemical container labeling rules written and available to laboratory personnel?	2	2
D	44. Does the laboratory keep material safety data sheets (MSDS's) for all laboratory chemicals which are received?	3	3
D	45. Have the laboratory employees been informed of the laboratory procedures for chemical container labeling and MSDS's?	2	1
D	46. Does the plant have a procedure for training laboratory employees when a new chemical hazard is introduced into the laboratory?	3	1
LABORATORY VENTILATION SYSTEMS			
D	47. Does the laboratory have written rules/procedures which cover the proper use, testing and maintenance of laboratory ventilation systems and "vent hoods"?	2	0
D	48. Are laboratory ventilation systems and "vent hoods" tested on at least a monthly frequency, with records kept?	3	0
D	49. Does the plant have written rules which cover when ventilation systems and "vent hoods" in the laboratory must be used?	2	0
D/F	50. Does the plant require that, insofar as possible, flammable, toxic, and volatile chemicals in the laboratory are transferred and worked with under "vent hoods"?	2	NA
D	51. Have laboratory personnel been trained in the rules and procedures of laboratory ventilation systems and "vent hoods" covered in items 47 through 50 above?	3	0

22

4

OCCUPATIONAL NOISE EXPOSURE**SCOPE**

This audit module covers hearing conservation. The items in this module assist plant in compliance with the Federal OSHA Hearing Conservation Standard. It includes items specific to noise level surveys, audiometric testing and training.

APPLICABLE REGULATIONS/STANDARDS

OSHA 29 CFR 1910.95

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

56
56
44 43.5

79%
79%

2. Has it been done since 1991 - Plant wise longer than that
3. Current Contouring not found for most areas
4. Visibility & Locations of some signs could be improved

OCCUPATIONAL NOISE EXPOSURE			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the facility have a formal written program for occupational noise exposure and noise abatement (or a noise survey and evaluation which documents fully that a formal written program is not needed)?	5	5
D (d)(1)	2. Has the facility done noise exposure monitoring for employees?	5	3
D	③ 3. Has the facility done noise level contouring to determine where high noise levels exist?	5	2 3
F	4. Are high noise level areas posted with warning signs?	5	4
D (c)(1)	5. Has the facility determined if they have personnel with sufficient noise exposure to include them in a hearing conservation program?	5	5
D (c)(1)	6. Is there a formal hearing conservation program where required?	5	5
D (d)(1)(i)	7. Is there a monitoring program established for those employees included in a hearing conservation program?	5	0
DI (d)(2)(ii)	8. Are measurement instruments calibrated before each use?	2	2
DI (e)	⑨ 9. Are employees notified of monitoring results?	2	2
D	10. Is audiometric testing offered as follows?		
(g)(5)(i)	a. A baseline for new employees exposed at or above the action level (8 hr TWA of 85 decibels or a dose of 50%) within six months of 1st exposure?	1	1
(g)(6)	b. Annual audiogram for those exposed at or above 8 hr TWA of 85 decibels?	1	1
D (g)(5)(ii)	11. Are employees instructed to stay away from loud noise for at least 14 hours prior to audiometric testing?	1	0
FI (i)(1)	12. Are hearing protectors offered to those exposed to an 8 hr TWA of 85 decibels or more?	2	2

44

30

14. 1/2 observed

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D (j)(1)	13. Has the plant evaluated the effectiveness of hearing protectors using Appendix B of the OSHA Standard?	2	2
F (i)(2)	14. Are hearing protectors worn where required?	1	1 1/2
D (k)	15. For employees exposed at or above an 8 hr TWA of 85 decibels, does a training program exist covering:		
	a. The effects of noise on hearing	1	1
	b. The purpose of hearing protectors, the different types, and selection, fitting, use, and care instructions.	1	1
	c. The purpose of audiometric testing and the procedure.	1	1
D (k)	16. For employees who are in the plant's hearing conservation program, is annual hearing conservation training conducted with records kept?	2	2
F, I (i)(1)	17. Is a copy of the noise exposure standard made available and posted in the work place?	In safety manual 1	1
	18. Audiometric test records (listing name, job classification, date of audiogram, examiner's name, date of last acoustic or exhaustive calibration of audiometer, employee's most recent noise exposure assessment, background sound pressure levels in audiometric test room) are retained for the duration of employees' employment?	2	2
	19. Are personal noise exposure measurement records are retained for two years?	1	1

12 11.5

SAFETY AND HEALTH TRAINING**SCOPE**

This module covers the general requirements for safety and health training. The module specifically addresses recordkeeping requirements. More specific questions relating to other topics (i.e. benzene training or fire training) are included in their specific modules.

NO APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

100
92 ✓
70

76%

6. All operations get all the training
but no written or documented information
specifying

SAFETY AND HEALTH TRAINING			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the facility have a written Safety and Health Training Program?	10	0
D	2. Are written outlines available for Safety and Health Training Topics?	10	10
D	3. Are records kept of all Safety and Health Training?	10	10
D	4. Do attendance records include:		
	a. Employee Name?	8	8
	b. Date of Training?	8	8
	c. Trainer?	8	8
	d. Topic Covered?	8	8
D	5. Is testing required?	8	NA
D	6. Are written training requirements determined for each job class?	10	8
D	7. Are training schedules issued at least annually?	10	0
D	8. Are new employees provided with Safety Orientations?	10	10

52
70

VENTILATION**SCOPE**

This module covers items necessary to assure to operational integrity of mechanical ventilation systems such as laboratory vent hoods and portable local exhaust devices such as used in welding operations. It does not address general HVAC Systems.

APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS	<u>24</u>
TOTAL APPLICABLE POINTS	<u>24</u>
TOTAL POINTS SCORED	<u>0</u>
	0%

VENTILATION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI	1. Are local exhaust ventilation systems evaluated regularly?	4	0
D	2. Have exhaust or face velocity criteria been established for the ventilation devices utilized?	2	0
D	3. Do the ventilation system evaluations include:		
	a. Face velocity measurements?	2	0
	b. Static pressure checks?	2	0
	c. Inspection of mechanical portions of the system	2	0
D	4. Are records kept of the evaluations?	4	0
DI	5. Are mechanical problems found during the evaluations repaired in a specified period of time?	4	0
D	6. Is there a documented and scheduled inspection and preventative maintenance program for all local exhaust ventilation devices?	4	0

WALKING/WORKING SURFACES**SCOPE**

This module covers the design, inspection, and maintenance of walking and working surfaces including ladders, platforms, docks, doors, stairs and scaffolds. Of particular emphasis are programs for the inspection and maintenance of ladders and scaffolds. Most questions in this module should be verified during a general field inspection.

APPLICABLE REGULATIONS/STANDARDS

OSHA 1910-Subpart D - Walking/Working Surfaces

TOTAL MODULE POINTS

100

(32)

TOTAL APPLICABLE POINTS

72

~~72~~ 68

TOTAL POINTS SCORED

47

45

66.9%

4. Dry blend area cluttered, floor slick in far back corner

Line 6 cluttered and inaccessible

5. see #4

6. Line 6 area is congested for forklift operation

9. Three out of six observed

15. Confirmed by interview - Dispose of bad ladders

WALKING AND WORKING SURFACES			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the facility have a written walking and working surface inspection program? [A]	4	0
D	2. Does the program require a walking/working surface inspection to be performed at least annually? [A]	4	0
D	3. Are recommendations from these inspections properly addressed and/or corrected?	4	0
F 22(a)(1)	4. Are work areas, storage areas, and service rooms maintained in a clean and orderly manner and free of debris?	4	2
F 22(a)(2)	5. Are the floors of interior workrooms maintained in a non-slippery condition?	4	2
F 22(b)	6. Are isles, loading docks, doors, and turning areas sufficiently wide for safe clearance?	4	3
F 23(a)(8)	7. Are floor openings protected with railings or covers on all exposed sides?	4	4
F 23(a)(8)	8. Are other means of protection used when rails are not in place?	4	NA
F 23(c)(1)	9. Are opensided floors or platforms more than four feet high provided with handrails, midrails, and toeboards?	4	2
F 23(d)(1)	10. Are flights of stairs with more than 4 risers equipped with handrails?	4	4
F 23(e)(1)	11. Are handrails 42 inches above the platform floor?	4	4
F 23(e)(1)	12. Are midrails halfway between the toprail and platform?	4	4
F 23(e)(4)	13. Are toeboards at least 4" high?	4	4
D 25(d)(1)	14. Does the facility have a ladder inspection program?	4	0
D 25(d)(1)	15. Are provisions in the procedure for handling ladders found to be defective?	4	2
F 25(d)(2)	16. Do all portable ladders have safety feet?	4	4
F 27(d)(1)	17. Are cages provided on fixed ladders over 20 feet in height?	4	4

Dry Bldg
Line 10

BB

3/6
13/15
3/3

3/3

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 28	18. Does the facility have a scaffolding safety procedure?	✓	2 NA
D 28	19. Does the procedure Include the following:		
	a. Scaffold footing?	✓	NA
	b. Scaffold construction and access?	✓	NA
	c. Guardrails and toeboards?	✓	NA
	d. Protection for persons working below?	✓	NA
D	20. Does the facility have a scaffold inspection program?	✓	NA
F 28(a)(5)	21. Are the wheels on mobile scaffolds capable of being locked?	4	4
F 30(a)(2)	22. Are portable dockboards secured to prevent movement during use?	✓	NA
F 30(a)(4)	23. Do portable dockboards have handholds to permit safe handling?	✓	NA
F	24. Is platform grating secured in a manner that prevents movement of the grating under load?	4	4

8 8

CONTRACTOR SAFETY**SCOPE**

This audit module covers operations involving the use of outside contractors. The module includes questions regarding contractor selection, training, and qualifications. It also covers contractor accidents and their communication.

APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

100
90
35

39%

CONTRACTOR SAFETY			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	CONTRACTORS		
D	1. Does the plant have a written contractor safety program?	5	5
D	2. Are contractors notified in writing that they are required to follow all applicable governmental and applicable internal safety and health standards?	5	5
	3. Before beginning work are contractors provided access to facility Safety and Health Procedures applicable to them?	5	5
	QUALIFICATIONS		
D	4. Is one of the criteria for contractor selection a review of their experience and knowledge in the particular type of work to be performed?	10	0
D	5. Are the requirements for licensure or certification needs for crafts work reviewed and are contractor personnel selected accordingly?	10	NA
I	6. Are the contractors' OSHA 200 forms reviewed before awarding contracts?	10	0
	TRAINING		
D	7. Is there a contractor safety orientation training program?	7	0
D	8. Does it require that contractors receive orientation before beginning work?	6	6
	9. Do contractor safety orientations include <u>physical and chemical hazards of the site</u> ; <u>work practices required</u> ; <u>facility safety rules</u> ; <u>facility emergency response</u> ?	6	6
	10. Are records kept of these orientations?	6	0
	CONTRACTOR ACCIDENTS		
I	11. Are contractor accidents which result in serious injury, Vista property damage, or are significant near misses investigated and documented?	5	0
	12. Do contractors provide their Vista representatives with copies of accident reports?	5	0

70

27

14. DO CONTRACTOR TRAINING ONCE. COULD MISS
CHANGES

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	PROCEDURES		
D	13. Are there specific requirements in facility safety and health procedures that apply to contractors where necessary?	5	5
I	14. Are contractors updated, as needed, on changes in the plant safety and health procedures?	5	3
	CONTRACTOR SAFETY ENFORCEMENT		
I	15. Are contractors audited and/or inspected on a periodic basis to ensure compliance with safety and health procedures?	5	0
D	16. Are the results of the audits/inspections reviewed by Vista contractor personnel and corrective actions taken.	5	0

20

8

THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)**SCOPE**

This module is based on OSHA's Lock-out/Tag-out Standard. It includes training, written program content, and assignment of responsibilities for program administration.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.147

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

87

82

53

65%

1. HAVE PROGRAM BUT NOT ALWAYS FOLLOWED

7F. NO SPECIFIC CONTROL OF CONTRACTOR LOCKOUT IN PROCEDURE.
GENERAL SAFETY RULES FOR CONTRACTORS NOT SUFFICIENT.

THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 1910.147(c)	1. Does this facility have a written program for control of hazardous energy (lockout/tagout) [A]	10 /	6
D	2. Does the program define "authorized" and "affected" personnel?	2 /	2
D 1910.147(c)(4)	3. Does the program contain a lockout procedure and a tagout procedure?	5 /	5
D (c)(5)	4. Does the program describe the hardware, i.e. locks, tags, etc., required for this program?	5 /	5
D	5. Does the program define under what conditions lockout/tagouts are required?	5 /	5
D (c)(4)	6. Is there a written procedure detailing the mechanics of a lockout or tagout?	5 /	5
D (c)(4)	7. Does the program assign responsibilities in the following areas:		
	a. Installing individual lockout locks or tags?	5 /	5
(f)(3)	b. Installing group and operations locks or tags?	5 /	NA
	c. Release from lockout or tagout?	5 /	5
(f)(4)	d. Removal of non-assigned locks or tags? (Employee who originally installed the lock or tag is no longer available to remove it.)	5 /	0
(f)(4)	e. Reassignment of lockout due to shift or personnel change for all parties?	5 /	0
(f)(2)	f. Contractor lockouts?	5 /	2
(c)(7)	g. Training of employees?	5 /	5
D (c)(4)-(c)(6)	8. Does the program contain provisions for auditing the effectiveness of the procedures?	10 /	0
D (d)(6)-(c)(4)	9. Does the program have a provision for attempting to start equipment which has been locked out to verify the lockout?	2 /	2
D (c)	10. Does the training program include:		
(c)(7)(i)(A)	a. Recognition of hazardous energy sources?	2 /	2
(c)(7)(ii)	b. Limitations of tagouts?	2 /	2

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
(c)(7)(iii)(A)	c. Retraining or additional training when assignments change?	2	2
(c)(7)(iii)(B)	d. Retraining when program audits reveal deficiencies in the program?	2	0

4

2

ELECTRICAL WORK PRACTICES**SCOPE**

This module covers elements contained in OSHA standards related to electrical equipment and work. Items include electrical safety procedures, inspection practices, and equipment specifications.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.301-.308

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

108

99

41

4190

2. TWO GARDS OFF,

5. LABELING GOOD IN SOME AREAS + POOR IN OTHER
AREAS

12. LINES ARE CHECKED, BUT NO DOCUMENTED PROGRAM

13. NO DOCUMENTED PROCEDURES

ELECTRICAL WORK PRACTICES			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Is there a written procedure that addresses electrical safety? [A]	10	0
F 303(g)(2)(i)	2. Are all live parts of electric equipment operating at 50 volts or more guarded against accidental contact?	3	1
F 303(g)(2)(iii)	3. Are entrances to rooms and other guarded locations containing exposed live parts marked with warning signs forbidding unqualified persons to enter?	X	NA
F 303(e)	4. Is the manufacturer's name, trademark, or other descriptive marking by which the product may be identified placed on all electrical equipment?	3	3
F	5. Are all electrical breakers and/or disconnects properly labeled?	3	1
F 305(c)(iii)(f)	6. Are overhead lighting elements protected from contact or breakage?	3	3
F 304(e)(1)(vi)	7. Do all circuit breakers clearly indicate whether they are in the open (off) or closed (on) position?	3	3
FI 333(a)(7)	8. Do portable ladders have non-conductive siderails if they are used where the employee or the ladder could contact exposed energized parts?	3	3
I 334(a)(ii)&(iii) 304(f)(4)	9. Are employees prohibited from using adapters which interrupt the continuity of the equipment grounding conductor?	3	3
FI 335(a)(1)(iv)	10. Do helmets (hard hats) for the head protection of employees exposed to high voltage electrical shock and burns meet the specifications contained in ANSI Z89.2-1971? - 289.1-1986 CLASS B	5	5
FI	11. Is there an emergency power system to supply power for illumination and special loads in the event of failure of the normal supply?	3	3
DI	12. Before doing any job around high voltage, are lines checked to see if they can be de-energized or taken out of service?	3	1
D 333(a)(2)	13. Are special work procedures in place for working on or in close proximity to energized currents?	3	0

45

24

16. NO SIGN POSTED,

18. BAND SAW GROUND PROTECTION NOT ADEQUATE, DOUBLE INSULATED HAND TOOLS WITH CORD IN GOOD CONDITION ACCEPTABLE, GROUND PROTECTION IS PREFERRED.

20. ONE SAW WITH NO GROUND STILL IN OPERATION

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
DI 333(b)(3)(iii)	14. Are crane operators instructed to maintain a 10 feet clearance of energized overhead lines?	X	NA
	15. When a crane must operate within contact distance (10 feet) of energized lines, are the following precautions observed:		
FI (iii)(C)	a. Is the crane grounded?	X	NA
FI (iii)(B)	b. Are personnel kept away from crane at a distance of at least 10 feet while crane is operating near energized lines.	X	NA
FI (iii)(C)	c. Is the crane barricaded with tape on all four sides?	X	NA
FI	16. Are signs posted in cranes and manlifts to warn against working near energized lines?	3	0
D 334(a)(2)	17. Is there a written program that outlines specific electrical inspection techniques and frequencies for all electrical equipment and tools including cords, extension cords, temporary lighting equipment, plugs, etc.? [A]	5	0
FI 334(a)(3)	18. Do portable and fixed shop tools, laboratory equipment, vending machines, office equipment, etc. have adequate paths to ground for leakage currents resulting from faulty insulation or wiring?	3	1
FI	19. If equipment is found to be acceptable after inspection, is it tagged to show the month inspected, while defective tools are removed from service and repaired or replaced?	3	0
FI 334(a)(2)(ii)	20. Are defective tools removed from service and repaired or replaced?	3	2
D	21. Are completed inspection and/or resistance test records kept on file for review?	5	0
I	22. Before cutting cables or wires in terminal boxes, conduit, cable trays, etc., are the wires and cables positively checked for absence of voltage by using non-contact or contact test equipment as appropriate?	3	3

25

4

24. EXTENSION CORD IN DM BLEND UTILITY ROOM NOT PROPERLY MOUNTED

25. NEED TO CONSIDER/VERIFY GROUND PROTECTION ON PLASTICIZER STORAGE TANKS FOR STATIC/LIGHTNING PROTECTION

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
FI 335(b)(2)	23. Are barriers or other means of guarding provided to insure that work space for electrical equipment will not be used as a passage way during periods when energized parts of electrical equipment are exposed?	3	3
FI	24. Are working spaces, walkways, and similar locations kept clear of extension cords so as not to create a hazard to employees?	3	2
FI	25. Do isolated storage tanks, towers, and flares have adequate grounding for lightning protection?	3	1
FI	26. Are ground fault interrupters required on portable hand held electrical pieces of equipment?	3	0
D	27. Is there an assured equipment grounding conductor program?	5	0
FI	28. Are building receptacle circuits checked for proper connections and ground resistances with an electrical safety analyzer?	3	3
I	29. Are portable and fixed shop tools, laboratory equipment, vending machines, and office equipment checked with a tester designed to determine insulation resistance as well as ground wire continuity?	3	0
D	30. Does the plant electrical safety program provide for:		
	a. Routing extension cords overhead or such that they won't be subjected to damage.	3	0
	b. Prohibiting extension cords from laying in water.	3	0

STORAGE OF MATERIAL IN DRY BLEND MCC IS
NOT ADVISED

29

9

FIRE PROTECTION**SCOPE**

This module includes items necessary to assess compliance with OSHA regulations. Included in this module are questions concerning fire extinguishers, fire hoses, suppression systems, personnel training, and fire brigades.

APPLICABLE REGULATIONS/STANDARDS

OSHA 1910-Subpart L-Fire Protection

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

248
98
164

65%

1. ACCESS TO THREE EXTINGUISHERS BLOCKED.

15. NEW EMPLOYEES NOT TRAINED ON FIRE EXTINGUISHER
USE.

FIRE PROTECTION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	FIRE EXTINGUISHERS		
F 157(c)(1)	1. Are fire extinguishers mounted, located and identified so that they are readily accessible?	4✓	3✓
F 157(c)(2)	2. Are all fire extinguishers approved or certified? (UL or FM approved) [A]	3✓	3✓
F 157(c)(3)	3. Are carbon tetrachloride and chlorobromomethane extinguishers prohibited from use? [A]	3✓	3✓
F 157(c)(5)	4. Are soda acid, riveted shell, gas cartridge-water type, and inverting fire extinguishers prohibited from use? [A]	3✓	3✓
F 157(c)(4)	5. Are extinguishers maintained in a fully charged and operable condition and in place?	4✓	4✓
F 157(d)(1)	6. Are extinguishers selected and distributed based on the class of hazard they are to protect?	3✓	3✓
F 157(d)(2)	7. Are extinguishers intended for Class A fires in buildings spaced no more than 150 feet apart?	3✓	3✓
F 157(d)(3)	8. Are extinguishers for Class D fires placed within 75 feet of the hazard?	3✓	NA
F 157(d)(4)	9. Are extinguishers for Class B fires spaced no more than 100 feet apart?	3✓	NA
D 157(e)(1)	10. Are fire extinguishers inspected monthly?	4✓	0
D	11. Are records available for monthly inspections?	4✓	0
D 157(e)(2)	12. Are extinguishers given an annual maintenance check and are records kept?	4✓	4
D 157(f)(2)	13. Do extinguishers meet the hydrostatic testing requirements and are records of testing kept?	4✓	4✓
D	14. Is alternate equipment provided when extinguishers are removed from service?	4✓	NA
D 157(g)(2)	15. Are employees trained in fire extinguishers use upon employment and annually thereafter?	4✓	3✓

43

33

19. ONE HOSE STATION NOT MARKED, OTHER MAT'L IN HOSE CABINET
20. ONE STATION CAN BE BLOCKED WITH WAREHOUSE MAT'L. ANOTHER HOSE STATION BLOCKED.

30. NO DOCUMENTATION OF ACCEPTANCE TEST.

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 157(g)(1)	16. Does fire extinguisher training include the hazards of incipient stage fire fighting? (Small, uncontained fires)	4 ✓	4
D (157(g)(3)	17. Does this training include the use of other firefighting equipment?	3 ✓	NA
	HOSES AND STANDPIPES		
F 158(b)	18. Are hose stations and monitors located or other wise protected against mechanical damage?	3 ✓	3
F (158(c)(1)	19. Are hose reels or cabinets identified and used only for fire equipment?	3 ✓	2
F 158(c)(2)	20. Are hose outlets and connections easily accessible and unobstructed?	3 ✓	1
F 158(c)(2)	21. Are hose threads standardized and adapters provided where needed?	3 ✓	NA
F 158(c)(3)	22. Is all fire hose lined?	3 ✓	3
F 158(c)(4)	23. Are all nozzles equipped with shut-offs?	3 ✓	0
F 158(e)(1)	24. Is all new hose purchased with a hydrostatic test rating of at least 200 psi?	3 ✓	3
F 158(c)(2)	25. Are all firewater system valves maintained in the correct position except during repairs.	3 ✓	3
D	26. Are firewater system valves inspected at least annually?	3 ✓	0
D 158(e)(2)	27. Is linen hose unracked, inspected, and reracked annually?	3 ✓	0
D	28. Is fire hose hydrostatically tested on a annual basis?	3 ✓	0
	AUTOMATIC SPRINKLER SYSTEMS		
NOTE: If the facility has no sprinkler systems, mark all questions N/A. If questions do not apply, mark N/A and delete from total.			
D 159(c)(2)	29. Are automatic sprinkler systems tested and inspected at least annually and are records kept?	3 ✓	0
D 159(c)(3)	30. Are acceptance tests documented on new sprinkler systems?	3 ✓	0
F 159(c)(6)	31. Are sprinkler system valves and piping protected against freezing?	3 ✓	3

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F 159(c)(9)	32. Does an alarm exist on automatic sprinkler systems having more than 20 heads?	3	3
F 159(c)(10)	33. Are sprinkler or deluge heads unobstructed?	3	3
D 159(c)(4)	34. Does the facility have a means of equivalent protection when systems are out of service?	3	3
	FIXED EXTINGUISHING SYSTEMS		
NOTE: If the facility has no fixed extinguishing systems, mark all questions N/A. If questions do not apply, mark N/A and delete from total score.			
F 160(b)(1)	35. Are fixed extinguishing systems matched to the hazard they are protecting?	3	NA
D 160(b)(2)	36. Does the facility have a procedure for notification of affected employees when a system is out of service?	3	NA
F 160(b)(3)	37. Do systems have discharge alarms where discharge may not be noticed or where it may affect employees?	3	NA
F 160(b)(5)	38. Are warning signs posted at the entrance to areas protected by systems with agents which may be hazardous to personnel?	3	NA
D 160(b)(6)	39. Are all fixed systems inspected annually and are records kept?	3	NA
D 160(b)(7)	40. Is the weight and pressure of refillable containers checked at least semi annually?	3	NA
F 160(b)(9)	41. Is an inspection tag, showing the last inspection date, posted on the fixed system containers?	3	NA
D 160(b)(10)	42. Are employees responsible for maintaining fixed systems trained in their duties?	3	NA
F 160(b)(12)	43. Are systems used in corrosive environments constructed of noncorrosive materials or otherwise protected?	3	NA
F 160(b)(15)	44. Is at least one manual activation station provided for each system and clearly identified?	3	NA
F 160(c)(3)	45. Are pre-discharge alarms provided for total-flooding systems?	3	NA

55. SPRINKLER SYSTEM PRESSURE CONTROL VALVES SHOULD BE INSPECTED + MAINTAINED (IF POSSIBLE); SPRINKLER SYSTEM HEADS SHOULD BE INSPECTED FOR DUST + CLEANED

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F 160(b)(17)	46. Is personal protective equipment provided for personnel who may have to enter hazardous atmospheres created by total flooding systems?	3	NA
	DRY CHEMICAL SYSTEMS		
NOTE: If the facility has no dry chemical systems, mark all questions N/A and delete from total score.			
F 161(b)(1)	47. Are dry chemical system agents compatible with foam or other materials with which they are used?	3	NA
F 161(b)(2)	48. Are dry chemical systems refilled with the chemical stated on the approval nameplate or compatible equivalent?	3	NA
F 161(b)(3)	49. Is a pre-discharge alarm present on systems where employees must have time to exit the area?	3	NA
D 161(b)(4)	50. Is the chemical in the system inspected at least annually for lumps and caking?	3	NA
	CARBON DIOXIDE AND HALON SYSTEMS		
NOTE: If the facility has no carbon dioxide or halon systems, mark all questions N/A and delete from the total score.			
F	51. Is the agent used compatible with the material the system is to protect?	3	NA
F 162(b)(2)	52. Are methods in place to assure that the concentration of the discharge agent remains until the fire is under control?	3	NA
D 162(b)(3)	53. Are procedures in place to protect personnel from gaseous agents after discharge?	3	NA
F 162(b)(5)	54. Does a pre-discharge alarm exist on the systems?	3	NA
	FIRE DETECTION SYSTEMS		
NOTE: If the facility has no fire detection systems, mark all questions N/A and delete from total score.			
D 164(c)(2)	55. Are fire detection systems tested and serviced at least annually?	3	0
F 164(c)(5)	56. Are fire and smoke detectors free of dirt, dust, paint spray, or other materials which may adversely affect their use?	3	NA
F 161(d)(1)	57. Are fire detectors placed outdoors protected by a canopy or hood?	3	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F 164(d)(2)	58. Are fire detectors protected from mechanical damage or impact and supported correctly?	3	NA
	FIRE BRIGADES		
NOTE: If the plant has no fire brigade, mark all questions N/A and delete from total score. If the brigade is not intended to perform interior structural firefighting, mark Questions 66 through 74 N/A and delete from total score.			
D 156(b)(1)	59. Does the facility have a written fire brigade procedure? [A]	6	NA
D 156(c)(2)	60. Are fire brigade members trained at least annually?	5	NA
D 156(c)(3)	61. Is training of a quality similar to specialized industrial fire schools? (Such as Texas A&M or Lamar University)	4	NA
D 156(c)(4)	62. Does training include information on special hazards to which members may be exposed?	3	NA
D 156(c)(4)	63. Are procedures in place that instruct personnel on actions to take at emergencies involving special hazards?	3	NA
D 156(b)(2)	64. Are personnel with heart disease, epilepsy, or emphysema restricted from brigade responsibilities? [A]	3	NA
D 156(d)	65. Are members trained in the use of protective equipment?	4	NA
F 156(e)(1)	66. Is protective equipment provided for protection of the head, body, and extremities, and contain foot, leg, hand, body, face, eye and head protection?	4	NA
F 156(e)(2)	67. Does foot and leg protection consist of boots worn with protective trousers?	4	NA
F 156(e)(2)	68. Are firefighting boots ANSI rated safety footwear?	4	NA
F 156(e)(3)	69. Does body protection consist of a coat with protective trousers?	4	NA
F 156(e)(4)	70. Are gloves approved for firefighting?	4	NA
F 156(e)(5)	71. Do fire helmets have faceshields, chin straps and ear flaps?	4	NA
F 156(f)	72. Are self-contained breathing apparatus of the positive pressure type?	4	NA

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D 156(f)	73. Are members trained in the use of self contained breathing apparatus?	4	NA
D 156(c)(2)	74. Are personnel involved in structural firefighting trained at least quarterly?	4	NA

0 0

FIRST AID**SCOPE**

Although each location is different and there are different way of handling first aid, there are some things which are applicable to any manufacturing location. This module covers the basics of first aid that should be available at any manufacturing location. This module also has questions which would apply to a location which chooses, or due to location, needs to provide more advanced first aid on site.

APPLICABLE REGULATIONS/STANDARDS

29 CFR 1910.

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

75
75
62

83%

1. HAVE WRITTEN PROCEDURES FOR VARIOUS TYPES OF EMERGENCIES.
DOES NOT HAVE RESPONSIBILITIES
2. MAY CONSIDER SIGN INDICATING WHERE FIRST AID MATERIAL KEPT.

FIRST AID			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	1. Does the plant have written procedures which discuss how first aid and medical emergencies will be handled?	9	5
F	2. Does the plant have a first aid kit or room available for the treatment of first aid injuries?	5	5
D 1910.151	3. Does the plant have emergency medical treatment readily available to them or on site (NOTE: The source of the emergency medical treatment should be documented)?	9	9
D	4. Does the site maintain a first aid log to record all occupational injuries?	3	3
D	5. Has the plant made a written determination of which employees should be given basic and advanced first aid training?	3	0
D	6. Have the employees who should be trained in basic first aid been trained, with records kept?	5	5
D	7. Does the plant's basic first aid training include:		
	a. How to treat minor or basic first aid injuries?	2	2
	b. How to distinguish between when basic first aid is needed and when a person should seek more advanced first aid or medical treatment?	2	2
	c. Documenting and reporting procedures for injuries?	2	2
	d. Training in cardiopulmonary resuscitation (CPR)?	2	2
D	8. Have plant employees who should be trained in more advanced first aid received the training, with records kept?	2	2
D	9. Beyond the plant's basic first aid training, does the plant's training for more advanced first aid also include:		
	a. Hands-on skills practice through the use of manikins and trainee partners?	1	1

45

36

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	b. Exposure to acute injury and illness settings and how to respond to those settings (Note: visual aids and videos may be used to accomplish this)?	1	1
	c. A course workbook which discusses first aid principals and practices?	1	1
	d. How to interact with the local emergency medical services system and personnel?	1	1
	e. The principles of responding to a health emergency?	1	1
	f. Methods of surveying the accident scene and the victim(s) condition?	1	1
	g. How to use the assessment of vital signs, airways, breathing, circulation, presence of bleeding, skin appearance, head and neck, eye, chest, abdomen, back, extremities, and medial alert symbols?	2	2
	h. How to treat victims for the following (Note: The training should cover all the items listed, partial credit is discouraged on this question)? - Musculoskeletal injuries - Confined spaces - Temperature extremes - Bites and stings - Heart attack - Asthma attacks - Bleeding - Burns - Shock - Poisoning - Stroke	3	3
	i. Universal precautions which the first aid provider should take including precautions to prevent contracting HIV or HIB viruses?	1	1
D	9. Is training updated regularly?	3	3
D	10. Does the training program include an assessment by the instructor of successful completion of the training?	3	3
F	11. Are first aid or medical emergency supplies available for use by those on site who have been trained to treat injuries beyond the simple first aid?	3	3

13- ONE EYE WASH NOT WORKING + COVERED WITH
DUST. ONE EYE WASH COVERED WITH DUST

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D/F	12. Has the Plant made provisions to handle medical or first aid waste that is contaminated with blood or other body fluids?	2	2
F 1910.151(c)	13. Where the eyes or body of any person may be exposed to injurious corrosive materials, are suitable facilities for quick drenching or flushing of the eyes and body provided for immediate emergency use?	4	2
D	14. Are emergency eye wash stations and emergency showers tested on a weekly basis w/records kept?	4	0

10

4

LEADERSHIP AND ADMINISTRATION**SCOPE**

This module covers items believed to be necessary and important to the development, management, and success of a plant safety and health module. The elements of this module are based on experience, professional judgement, and company policy.

NO APPLICABLE REGULATIONS/STANDARDS

TOTAL MODULE POINTS	<u>54</u>
TOTAL APPLICABLE POINTS	<u>54</u>
TOTAL POINTS SCORED	<u>50</u>

93.7%

- 8 a) NO WRITTEN POLICY, BUT CLEAR POLICY PROCEDURE
- 8 b) NO WRITTEN PROCESS, BUT CLEAR PROCEDURE FOLLOWED
- 9) Q-SCORE CARD GOALS FOR PLANT, NOT IN PLT MGR GOALS

LEADERSHIP AND ADMINISTRATION			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	GENERAL POLICY		
D	1. Does the plant have a safety and health policy specific to the site?	5'	5'
D	2. Is the policy signed by the plant manager?	2'	2'
DI	3. Has the policy statement been communicated to plant personnel through:		
	a. Distribution in manuals or otherwise?	2'	2'
	b. Posting on bulletin boards or other locations?	2'	2'
	c. As part of training programs?	2'	2'
	d. As part of management or supervisory presentations?	2'	2'
F	4. Are plant safety and health rules, policies, and procedures readily available to all employees?	2'	2'
D	5. Is there a plant safety and health manual that contains rules, policies, and procedures?	2'	2'
D	6. Is the manual updated on a regular basis	2'	2'
	PROGRAM ADMINISTRATION		
D	7. Are the responsibilities for health and safety at the location clearly indicated in policy or procedure documents?	5'	5'
D	8. Does the responsibility delineation clearly indicate:		
	a. Policy setting procedure?	2'	1'
	b. Procedure development and approval process?	2'	1'
	c. Accountability for implementation and enforcement of safety rules and practices?	4'	4'
D	9. Are annual safety and health/loss control objectives and goals established for the plant?	2'	1'

36

33

16. SUGGEST PLANNED PROGRAM FOR DEVELOPMENT SUCH
AS NATIONAL SAFETY COUNCIL ADVANCED SAFETY
CERTIFICATE PROGRAM

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	MANAGEMENT PARTICIPATION		
D	10. Does the Plant Manager and or his staff support the plant safety and health programs and policies by letters, memos, or active participation in programs?	4 -	4
I	11. Does the Plant Manager and his staff participate in safety training?	2 -	2
I	12. Does the Plant Manager and his staff participate in plant inspections?	2 ✓	2
I	13. Does the Plant Manager and his staff participate in safety meetings?	4 ✓	4
	RESOURCES		
F	14. Does the plant have current OSHA regulations (state and federal) available at the site?	2 -	2
F	15. Does the plant have necessary reference materials available at the site? (ventilation manual, TLV books, etc.)	2 ✓	2
I	16. Have the training needs for plant safety and health staff been evaluated to assure professional competency is maintained?	2 ✓	1

18

17

MECHANICAL SAFETY**SCOPE**

This module deals with the various aspects of compliance with OSHA regulations on mechanical safety. Included in this module are questions dealing with welding and cutting, guarding, slings, and power tools.

APPLICABLE REGULATIONS/STANDARDS

OSHA 1910-Subpart O-Machine Guarding

OSHA 1910-Subpart P-Power Tools

OSHA 1910-Subpart Q-Welding, Cutting, and Brazing

TOTAL MODULE POINTS	<u>250</u>
TOTAL APPLICABLE POINTS	<u>220</u>
TOTAL POINTS SCORED	<u>79</u>

36%

1. GUARDS OFF TWO PIECES OF EQUIPMENT

MECHANICAL SAFETY			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	WELDING AND CUTTING		
D 252(a)(2)(xiii)	1. Are written procedures in place for the use and care of cutting and welding equipment?	10	0
D 253(b)	2. Is there a written program for the safe handling and use of compressed gas cylinders?	10	0
D 252(a)(2)(xiii)	3. Have personnel been trained in the use and care of cutting and welding equipment?	10	0
F	4. Do Oxy-Acetylene cutting and welding devices have the following safety equipment:		
	a. Backflow preventers?	10	0
	b. Flashback protectors?	10	0
	c. Back pressure protectors?	10	0
	d. Pressure relief devices?	10	10
F	5. Are flash curtains available in areas where personnel could be exposed to welding flash?	10	0
D	6. Is there a written procedure for cutting and welding equipment inspection?	10	0
	MACHINE GUARDING		
F 212(a)(1)	1. Are machines and equipment guarded in such a way as to protect personnel from nip points, flying chips, sparks, etc.	10	6
F 212(b)	2. Are permanently located machines securely anchored to prevent moving?	10	10
	SLINGS AND LIFTING DEVICES		
D	1. Have personnel been trained in the use of slings and lifting devices?	10	0
D 184(c)(3)	2. Is there a written program for sling and lifting devices inspection? [A]	10	0
D 184(c)(3)	3. Are alloy steel chain slings inspected at least annually?	X	NA
D 184(c)(4)	4. Are all slings and lifting devices proof tested before receipt and is a certificate maintained on each?	10	0

7- 2 HOOKS CRACKED

4- PERSONNEL DO INSPECTIONS BUT THERE ARE NO
GUIDELINES OR TRAINING ON WHAT TO INSPECT
FOR.

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
F	5. Is the load capacity marked on portable hoists (i.e. come-a-longs)?	10	10
F 184(f)(5)	6. Are wire rope slings free from kinks and excess broken wires?	10	NA
F 184(e)(7)	7. Are hooks on lifting devices free from cracks and stretching?	10	8
	PORTABLE POWER TOOLS		
D	1. Have personnel been trained in the safe use of portable power tools?	10	0
F 243(c)(1)	2. Do grinders have guards for personnel protection?	10	10
F 243(a)(1)	3. Are saw blades guarded?	10	10
I	4. Do personnel inspect equipment before use?	10	5
F 243(e)	5. Do power lawnmowers have discharge guards?	10	NA
F 244(a)(1)	6. Are load ratings stamped on jacks?	10	10
D	7. Is there a program for inspection of electrical power tools for grounding continuity?	10	0

SAFETY CONTROL PERMITS**SCOPE**

This module covers items necessary to have practical and safe procedures for "permitting" hazardous or potentially hazardous work. The module includes items related to hot work, confined space entry and excavations.

NO APPLICABLE REGULATIONS/STANDARDS

1926.651

1926.652

TOTAL MODULE POINTS
TOTAL APPLICABLE POINTS
TOTAL POINTS SCORED

3113110

070

SAFETY CONTROL PERMITS			
VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	ADMINISTRATIVE/PROCEDURAL		
D	1. Does the plant have a written procedure for permitting work? [A]	10	0
D	2. Are responsibilities under this procedure clearly described?	5	0
D	3. Are the following classes of work covered by the procedure?		
	a. Hot work?	2	0
	b. Confined space entry?	2	0
	c. Excavation?	2	0
	d. General work?	2	0
D	4. Are different levels of approval required for work with higher degrees of risk?	5	0
DF	5. Are permits required to be posted on the job?	5	0
DI	6. Are appropriate provisions in place for appropriate review should personnel changes occur during the job?	1	0
F	7. Are the permit forms highly visible and durable?	2	0
D	8. Are provisions made for permit extensions to include:		
	a. approval requirements	2	0
	b. allowable extension durations	2	0
FD	9. Does each permit have printed on the form:		
	a. Date	1	0
	b. Time (permit duration)	1	0
	c. Description of job	1	0
	d. Type of work (hot work, electrical, etc.)	1	0
	e. Types of hazards	1	0
	f. Precautions	1	0
	g. A place for special precautions or instructions	1	0
	h. An approval signature space	1	0

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	10. Does the procedure include instruction on what action to take if conditions change?	5	0
D	11. Does the procedure require field safety checks by the person(s) authorizing the permit?	5	0
	HOT WORK		
D	12. Does the procedure define when a hot work permit is required?	5	0
D	13. Is a firewatch required on all hot work jobs?	5	0
D	14. a. Are the duties of a firewatch spelled out clearly in the procedure?	5	0
	b. Are those duties listed on the permit form?	5	0
	c. Is the firewatch required to sign signifying that he/she understands his/her duties?	5	0
D	15. When hot work is performed, does the procedure require isolation of the work with blinds or other means of positive isolation?	10	0
D	16. Does the procedure require that all lines, equipment, etc. be checked for flammable and combustible materials before permits are issued?	10	0
D	17. Is there a provision in the procedure to remove exposed flammable or combustible material from the welding area?	5	0
D	18. Are provisions made for spark containment or abatement especially on burning, gouging, grinding operations?	5	0
D	19. Are provisions made for protecting sewer openings from slag or sparks?	5	0
D	20. Is it stated in the procedure that block valves are not normally considered acceptable methods of isolation?	5	0
D	21. In regards to electrical welding, is it stated that:		
	a. Grounds should be as close to the work as possible.	5	0

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	b. Welding machines must not be left unattended while running.	5	0
	c. Welding leads must be inspected for damage before use.	5	0
D	22. Is it stated in the procedure that oxygen and acetylene or other compressed gas bottles must remain outside of confined spaces?	5	0
D	23. Does the procedure require that oxy-acetylene hoses and torches be removed from confined spaces during breaks and periods of non-work?	5	0
D	24. Are provisions made for controlling potential welding fume exposure when welding in enclosed spaces?	5	0
D	25. Is welding on lines and equipment pressured up with plant air prohibited?	5	0
	CONFINED SPACE ENTRY		
D	26. Does the procedure define when a confined space entry permit is required?	10	0
D	27. Are all confined spaces required to be totally isolated before entry?	10	0
D	28. Does the procedure address and prohibit sub-standard isolation methods such as block valves?	5	0
D	29. Are blinds required to be compatible for the service and pressures they are intended for?	5	0
D	30. Are disconnected lines required to be plugged or capped?	5	0
D	31. Does the procedure address the use of "steam out" blinds and the precautions necessary when using these during entry situations?	2	0
D	32. Are blind lists required for all confined space entries?	5	0
D	33. Is the atmosphere inside the confined space required to be tested for:		
	a. Oxygen content?	2	0
	b. Flammable vapors?	2	0
	c. Specific toxic materials as necessary?	2	0

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
D	34. Does the procedure require Plant Manager approval for entries into inert or Immediately Dangerous to Life and Health (IDLH) atmospheres?	10	0
D	35. Does the procedure clearly define what is required if there is any residual process material remaining in the confined space to be entered?	5	0
D	36. Does the procedure address precautions necessary when entering a known hazardous environment?	5	0
D	37. Does the procedure address representative sampling of the area to be entered?	2	0
D	38. Is a manhole watch required on every confined space entry?	5	0
D	39. a. Is a list of the manhole watch's duties spelled out clearly in the procedure?	2	0
	b. Are those duties on the permit form?	2	0
	c. Is the manhole watch required to sign signifying they understand their duties?	2	0
D	40. Is communication between the manhole watch and the control room or other source of assistance required?	5	0
D	41. Is all powered equipment which could pose a danger to employees required to be locked out or disconnected?	5	0
D	42. Does the procedure address ventilation of confined spaces being entered?	2	0
D	43. Are power tools and lights or any other electrically operated equipment required to be low voltage, less than 36V, or protected by GFI, ground fault interrupter?	5	0
D	44. Are special precautions outlined for welding and burning in confined spaces?	2	0
D	45. Is safe access/egress addressed in the procedure?	2	0
D	46. Does the procedure address temperature considerations relating to heat stress and personnel contact with hot surfaces?	1	0

VERIFICATION		POINTS AVAILABLE	POINTS RECEIVED
	EXCAVATIONS		
DI	47. Are permits required for all excavations?	5	0
D 1926.651(b)	48. Is a review of underground line drawings required before excavation begins?	5	0
D 1926.651(b)(3)	49. Is a probing plan and probing required prior to excavations?	5	0
D	50. During digging, is a bucket watch required?	5	0
D 1926.652 (b)&(c)	51. Are there provisions for shoring, stair stepping, or sloping of excavations deeper than four feet?	5	0
DF	52. Are warning barricades lights, flags, etc. required to warn personnel of open excavations?	5	0
D	53. Do entries into excavations deeper than four feet require a confined space entry permit?	5	0
D	54. Does the procedure preclude personnel from being in the hole while the excavating equipment is operating?	5	0
D 1926.651(c)(2)	55. Does the procedure require safe access and egress be provided from the excavation?	3	0
D 1926.65(e) 1926.65(f)	56. Are provisions made in the procedure to keep heavy equipment away from the edge of the excavation to prevent collapse of the excavation?	3	0
D	57. Are tunneling excavations prohibited except by special approval?	2	0
D 1926.65(j)(2)	58. Are excavated materials required to be kept more than two feet from the edge of the excavation?	2	0