MODULE

D

This module is directed toward workers in central processing (sterile processing, central supply/distribution) or others who use either ethylene oxide or hydrogen peroxide gas plasma to chemically sterilize medical devices, instruments or supplies.

1.	During your career (including all jobs at this and other facilities), how long have you been chemically sterilizing medical instruments or supplies using ethylene oxide or hydrogen peroxide gas plasma?	☐ Less than 6 months ☐ At least 6 months but less than a year ☐ 1-5 years ☐ 6-10 years ☐ 11-20 years ☐ More than 20 years
2.	When have you received formal training at this facility on the safe handling of chemical sterilants? Please ✓ all that apply.	 □ During orientation for your current job or task □ Once, but not at orientation □ Periodically, but less than once per year □ At least annually (i.e., one or more times every year) □ Other (Please specify): □ Never received training at this facility
3.	Have you received any certification for sterile processing of medical instruments and supplies? Please ✓ all that apply.	 Yes, by employer Yes," by the Certification Board for Sterile Processing and Distribution (CBSPD) or formerly the NICHSPDP. This includes a CSPDT, CSPDS, CSIT, or CSPDM. Yes, by another professional society Yes, by a training provider, other than employer Yes, by other (Please specify):
		□ No
4.	Have you seen a copy of the OSHA guidelines for workplace exposure to ethylene oxide at this facility?	☐ Yes ☐ No
5.	Have you seen written policies or standard procedures at this facility for working with chemical sterilants?	☐ Yes ☐ No

6. At any time in the past 7 calendar days, did you sterilize medical instruments or supplies using ethylene oxide or hydrogen peroxide gas plasma?

Yes	_	
No		skip to Question 36.

Questions 7-26 pertain to the use of ethylene oxide and questions 27-32 pertain to the use of hydrogen peroxide gas plasma for chemical sterilization of medical instruments or supplies.

- 7. At any time during the past 7 calendar days, did you sterilize medical instruments or supplies using ethylene oxide?
- ☐ Yes☐ No ☐ Skip to Question 27.
- During the past 7 calendar days, in which of the following areas of this facility did you load or unload ethylene oxide sterilizers? Please ✓ all that apply.
- a Central processing/supply/distributionb. Outpatient surgery clinic
- c. Cardiac catheterization lab
- d. Dental clinic or lab
- e. Autopsy lab
- f. Some other location (Please specify):
- 8A. From the location(s) checked above, please write the **letter** (a, b, c, etc.) corresponding to the area where you most often loaded or unloaded ethylene oxide sterilizers during the past 7 calendar days.
- Most often loaded or unloaded......

9. During the past 7 calendar days, how many days did you sterilize medical instruments or supplies with a sterilizer using ethylene oxide as the sterilant?

Number of days......(Please write a number from 1-7)

10. During the past 7 calendar days, did you sterilize medical instruments or supplies using an automated sterilizer supplied by compressed-gas cylinders or single-dose cartridges of ethylene oxide?

Yes	
No 💮	Skip to Question 22.

11.	During the past 7 calendar days, did you sterilize medical instruments or supplies using an automated ethylene oxide sterilizer with in-chamber aeration (i.e., load does not need to be transferred after sterilization to a separate aerator)? (Check "Not applicable" if your facility does not have this type of ethylene oxide sterilizer.)	☐ Yes, continue ☐ No ☐ Not applicable ☐ Skip to Question 17.
12.	How much time do you typically spend transferring a single load from an ethylene oxide sterilizer? (Include only the time spent transferring instruments or supplies from the sterilizer.)	☐ Less than 1 minute ☐ 1-2 minutes ☐ 3-4 minutes ☐ 5-6 minutes ☐ More than 6 minutes
13.	During the past 7 calendar days, what was the total number of loads you processed using an ethylene oxide sterilizer with inchamber aeration?	☐ 1 load ☐ 2-3 loads ☐ 4-5 loads ☐ 6-10 loads ☐ More than 10 loads
14.	How does the number of loads you processed during the past 7 calendar days using an ethylene oxide sterilizer with inchamber aeration compare with most weeks?	□ Past 7 days were about normal □ Past 7 days were less than normal □ Past 7 days were greater than normal
15.	Which best describes the location of the ethylene oxide cylinder(s) for the sterilizer with in-chamber aeration you used most often during the past 7 calendar days? Please ✓ only one.	 ☐ Gas cylinder is located in a different room than the sterilizer. ☐ Gas cylinder is located in the same room as the sterilizer loading area. ☐ Gas cylinder (cartridge) is located inside the sterilizer (i.e., requires the cartridge to be inside chamber with door closed before it is punctured). ☐ Other (Please specify):

16.	Considering the sterilizer with in-chamber aeration you used most often during the past 7 calendar days:	Yes	No	No Don't Know	
	Was operational local exhaust ventilation provided above the door of the sterilizer?			Don't Know	
	b. Was a visual display of the ethylene oxide level (i.e., concentration of ethylene oxide in the room) present near the ethylene oxide sterilizer?				
17.	During the past 7 calendar days, did you use an automated ethylene oxide sterilizer with a separate aeration chamber (i.e., load needs to be transferred after sterilization to a separate aerator)? (Check "Not applicable" if your facility does not have this type of ethylene oxide sterilizer.)	☐ Yes, continue☐ No☐ Not applicable☐	Skip t	to Question 22.	
18.	During the past 7 calendar days, how much time did you typically spend transferring a single load from a sterilizer to the aeration chamber? (Include only the time spent transferring the load from the sterilizer to the aeration chamber.)	Less than 1 min 1-2 minutes 3-4 minutes 5-6 minutes More than 6 min			
19.	During the past 7 calendar days, what was the total number of loads transferred from the sterilizer to the aeration chamber?	1 load 2-3 loads 4-5 loads 6-10 loads More than 10 loads	ads		
20.	How does the number of loads you transferred from the sterilizer for aeration during the past 7 calendar days compare with most weeks?	Past 7 days wer Past 7 days wer Past 7 days wer	e less thar	normal	

21.	Considering the sterilizer with a separate aeration chamber that you used most often during the past 7 calendar days:	Yes	No	Don't Know
	a. Was operational local exhaust ventilation provided above the door of the sterilizer?			
	b. Was a visual display of the ethylene oxide level (i.e., concentration of ethylene oxide in the room) present near the ethylene oxide sterilizer?			
22.	During the past 7 calendar days, did you sterilize medical instruments or supplies with a sterilizer that uses glass ampoules containing liquid ethylene oxide? (Check "Not applicable" if your facility does not have this type of ethylene oxide sterilizer.)	☐ Yes, continu☐ No☐ Not applicat	Skin	to Question 27.
23.	During the past 7 calendar days, what was the total number of loads you processed with a sterilizer that uses glass ampoules of liquid ethylene oxide?	☐ 1 load ☐ 2-3 loads ☐ 4-5 loads ☐ 6-10 loads ☐ More than 1	0 loads	
24.	How does the number of loads you processed during the past 7 calendar days with a sterilizer that uses glass ampoules of liquid ethylene oxide compare with most weeks?	□ Past 7 days □ Past 7 days □ Past 7 days	were less tha	n normal
25.	When using sterilizers that use glass ampoules of liquid ethylene oxide during the past 7 calendar days, was the sterilizer you used most often located within an operating ventilated enclosure (hood)?	☐ Yes☐ No☐ Don't know		
26.	In regards to that same sterilizer, was a visual display of the ethylene oxide level (i.e., concentration of ethylene oxide in the room) present in the work area?	☐ Yes☐ No☐ Don't know		

The following questions pertain to the use of hydrogen peroxide gas plasma (such as the STERRAD® system) for sterilizing medical instruments or supplies.

27.	At any time during the past 7 calendar days, did you sterilize medical instruments or supplies using hydrogen peroxide gas plasma (such as the STERRAD® system)?	Yes No Skip to Question 33.
28.	During the past 7 calendar days, how many days did you sterilize medical instruments or supplies using hydrogen peroxide gas plasma?	Number of days[] (Please write a number from 1-7)
29.	During the past 7 calendar days, how much time did you typically spend transferring a single load from a sterilizer using hydrogen peroxide gas plasma? (Include only the time spent transferring instruments/supplies to or from the sterilizing machine).	☐ Less than 1 minute ☐ 1-2 minutes ☐ 3-4 minutes ☐ 5-6 minutes ☐ More than 6 minutes
30.	During the past 7 calendar days, what was the total number of loads you sterilized using hydrogen peroxide gas plasma?	☐ 1 load ☐ 2-3 loads ☐ 4-5 loads ☐ 6-10 loads ☐ More than 10 loads
31.	How does the number of loads you sterilized using hydrogen peroxide gas plasma during the past 7 calendar days	☐ Past 7 days were about normal ☐ Past 7 days were less than normal ☐ Past 7 days were less than normal

compare with most weeks?

☐ Past 7 days were greater than normal

32.	During the past week, in which of the following areas of this facility did you sterilize medical instruments or supplies using hydrogen peroxide gas plasma? Please ✓ all that apply.	□ a Central processing/supply/distribution □ b. Outpatient surgery clinic □ c. Cardiac catheterization lab □ d. Dental clinic or lab □ e. Autopsy lab □ f. Some other location (Please specify):
	32A. From the location(s) checked above, please write the letter (a, b, c, etc.) corresponding to the area of this facility where you most often used a hydrogen peroxide gas plasma sterilizer during the past week.	Area most often used
	The following questions pertain to the us (PPE) while chemically sterilizing medical	
33.	During the past week, did you wear respiratory protection, not including a surgical mask, while chemically sterilizing medical instruments?	☐ Always ☐ Sometimes ☐ Never ■ Skip to Question 35.
34.	What type(s) of respirator(s) did you use? Please ✓ all that apply.	☐ Half mask or full-face piece respirator with replaceable filters or cartridges
		Powered air-purifying respirator (PAPR)
		☐ Supplied-air respirator
		☐ Don't know



During the past 7 calendar days, if you ALWAYS wore respiratory protection, not including a surgical mask, while chemically sterilizing medical instruments, skip to Question 36.

35.	What were the reason(s) you did not always wear respiratory protection , not including		1.	Potential for exposure to chemical sterilants is insignificant	
	medic	gical mask, while chemically sterilizing cal instruments? e ✓ all that apply.		2.	Exposure to chemical sterilants is possible but the health hazard is insignificant
				3.	An engineering control (e.g., exhaust ventilation or an enclosure) is already being used
				4.	Not required by employer
				5.	Not provided by employer
				6.	Not standard practice
				7.	Too uncomfortable or difficult to use
				8.	Not readily or always available in work area
				9.	Other (Please specify):
	35A.	From the reason(s) checked above, please write the number (1, 2, 3, etc.) of the one most important reason you did not always wear respiratory protection while chemically sterilizing medical instruments	Мо	st in	mportant reason

You have now completed this module. Thank you.