

# Lab 10 - Silica

Due Nov 1 at 7am	Points 12	Questions 4	Time Limit 180 Minutes
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## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	19 minutes	12 out of 12

⚠️ Correct answers are hidden.

Score for this quiz: **12** out of 12  
Submitted Oct 22 at 1:13pm  
This attempt took 19 minutes.

Question 1

3 / 3 pts

Match the term with the definition

The Creating Employer

The employer that ca

The Exposing Employer

An employer whose o

The Correcting Employer

An employer who is e

The Controlling Employer

An employer who has

Question 2

3 / 3 pts

OSHA's silica standard for construction 1926.1153 - Respirable crystalline silica, Appendix A calls for the use of NIOSH Method 7602 for the analysis of silica samples. The LOD for NIOSH 7602 is 5  $\mu\text{g}/\text{sample}$ . If the flow rate of the cyclone is 1.7 lpm, what is the minimum detectable TWA concentration in air for an 8-hour shift as a percentage of the PEL of 50  $\mu\text{g}/\text{m}^3$ ?

- ☐ 36.2%
- ☐ 0.012%
- ☐ 816%
- ☐ 12.9%
- ☒ 12.3%

### Question 3

3 / 3 pts

OSHA's silica standard for construction 1926.1153 - Respirable crystalline silica, Appendix A calls for the use of NIOSH Method 7602 for the analysis of silica samples. The standard also requires the method be capable of detecting 25% of the PEL of 50  $\mu\text{g}/\text{m}^3$ . Since the LOD for NIOSH 7602 is 5  $\mu\text{g}/\text{sample}$  and the flow rate of the cyclone is 1.7 lpm, what is the minimum sample time you must use in order to comply with the standard?

- ☐ 400 minutes
- ☒ 235 minutes
- ☐ 180 minutes
- ☐ 360 minutes

#### Question 4

3 / 3 pts

OSHA's silica standard for construction 1926.1153 - Respirable crystalline silica, Appendix A calls for the use of NIOSH Method 7602 for the analysis of silica samples. The standard also requires the method be capable of detecting 25% of the PEL of  $50 \mu\text{g}/\text{m}^3$ . Since the LOD for NIOSH 7602 is  $5 \mu\text{g}/\text{sample}$  and the flow rate of the parallel particle impactor is 8 lpm, what is the minimum sample time you must use in order to comply with the standard for task sampling?

☒ 50 minutes

☐ 120 minutes

☐ 30 minutes

☐ 60 minutes

Quiz Score: **12** out of 12