Lab 11 - Noise

Due Nov 8 at 8am

Points 8

Questions 8

Time Limit None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	172 minutes	6 out of 8

(!) Correct answers are hidden.

Score for this quiz: **6** out of 8 Submitted Nov 3 at 4:17pm This attempt took 172 minutes.

Question 1 1 / 1 pts

A 20 ton drop hammer has an impact noise so loud that your sound meter "pegs" when attempting to take a reading at the operator's hearing zone. Backing up and taking readings until the meter responds without going off-scale you find that the SPL is 143 dB at 50 feet away. The drop hammer is located on a concrete floor adjacent to a concrete wall. What is the SPL at the operator's workstation 3 feet from the drop hammer?

170			





16
104

Question 2 1 / 1 pts

are operating at 95 dBA and 105 dBA respe	ectively?
O 107	
105	
O 108	
O 106	
Given an exposure profile of 1 hour at 90 di	BA, 1 hour at 95 dBA, 4
Given an exposure profile of 1 hour at 90 dl nours at 88 dBA, and 1 hours at 100 dBA, v Dose for OSHA?	
Given an exposure profile of 1 hour at 90 di nours at 88 dBA, and 1 hours at 100 dBA, v	BA, 1 hour at 95 dBA, 4
Given an exposure profile of 1 hour at 90 dl nours at 88 dBA, and 1 hours at 100 dBA, v Dose for OSHA?	BA, 1 hour at 95 dBA, 4
Given an exposure profile of 1 hour at 90 dinours at 88 dBA, and 1 hours at 100 dBA, volume for OSHA?	BA, 1 hour at 95 dBA, 4
125	BA, 1 hour at 95 dBA, 4

Question 4	. , . p.s
The noise in a large printing facility which contains four operators measures 106 dB. If the four printers are the main so noise and are equidistant from the measuring instrument, what dBA of each unit?	urce of
O 103	

O 109			
93			
100			

What is the permissible OSHA exposure period in hours for a constant 97 dBA sound source? 4 3.5 2.5

Incorrect

Question 6 0 / 1 pts

The measured noise dose of a worker is 68% for the morning 4 hour shift. If the dosimeter was recording using the OSHA criteria, what was the average SPL in dB?

- 92.2
- **78.4**
- 81
- **76**

Question 7 1 / 1	J	pt
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The Space-X Falcon 9 rocket produces 1,710,000 lbf of thrust ≈ to 34,000,000 horsepower ≈ 26 gigawatts of energy. The Banana Creek Launch Viewing Area is located 6,250 meters from the Launch Complex 39A (LC-39A). What is the SPL at the viewing area? Hint: convert watts to dB SWL, then calculate SPL with the appropriate DI.

14	n
- 14	u

98

Incorrect

Question 8 0 / 1 pts

The measured full-shift noise dose of a worker is 72%. If the dosimeter was recording using the ACGIH TLV criteria, what was the average SPL in dB?

01.1

83.6

Quiz Score: 6 out of 8

^{81.6}

^{82.5}