

## APPENDIX I—JOB AID: QUICK START QUEST NOISEPRO DOSIMETER INSTRUCTIONS

### Turn On:

1. Turn on unit by pressing and releasing **On/Off/ESC** key. The display will initialize and sequence to the “\START” screen.
2. If “**LOBAT**” is in display, put fresh batteries in the unit.

### Reset:

3. Press and hold **RESET** soft key; the display counts down from 5 and indicates “Deleting All Studies” on display. A solid box icon in lower right corner of the display means data has been erased from the unit. **NOTE:** Resetting the unit erases all previously stored data from memory.

### Verify Current Setup:

4. From the **START** menu go to **SETUP** menu using the **▲ ▼** arrow keys and press **↵** key. Press the corresponding soft key for **DOSE1**. An asterisk denotes the current active setup for the selected **DOSIMETER**. **DOSE1** should be set up for **\*OSHA HC**. Press **↵** key to view the selected setup. The selected setup menu offers the options to: **View/Set Parameters**, **View/Set Range**, **View/Set Weighting**, and **Save to Dosimeter 1**. Use the **▲ ▼** arrow keys to select the desired item.
5. In this example, select **VIEW/SET PARAMETERS**. Press **↵** key to **VIEW/SET PARAMETERS**. Make sure **RESPONSE** is **SLOW**, **EXCHANGE RATE** IS **5 dB**, **CRITERION LEVEL** IS **90dB**, **CRITERION TIME** IS **8 hr.**, and **THRESHOLD** is **80 dB**. Press the **On/Off ESC** key **three** times to exit. Now repeat the steps above for **DOSE2**, which should be set up for **\*OSHA PEL**. The only difference is for the **PARAMETERS**, where the **THRESHOLD** should be set for **90 dB**. Press the **On/Off ESC** key **three** times to exit.

### Pre-Calibrate:

6. Turn on calibrator and check **LOBAT** indicator. Replace batteries if needed.
7. Insert unit's microphone (remove windscreen) into calibrator, using Quest adapter 053-884.
8. From the **START** menu, press and release **CAL** softkey and the “\CAL” screen appears. With **CALIBRATE** highlighted, press **↵** key and the **PRE-CALIBRATION** screen appears. **Note:** If **POST-CALIBRATION** screen appears, the data has not been cleared from the NoisePro. If required, use the **▲ ▼** arrow keys to adjust the displayed value to match the calibrator output. Press **↵** key to save (store) the calibration. Unit will perform self-calibration and return to “\CAL” screen.
9. Document Pre-calibration on OSHA 92 form.

10. Press and release the **On/Off/ESC** key to return to “START” screen.

Collect Data:

11. Clip microphone, with windscreen attached to the top of the shoulder, away from the neck. Clip meter onto individual’s belt on the side opposite the microphone. Try to run the microphone cable underneath clothing to prevent it from catching on anything.
12. Press the **RUN/PAUSE** key to begin data collection. The run icon “▶” will appear in the lower right corner of the display. While the test is running, you can view current data on the display of the NoisePro.

End Study:

13. Press **RUN/PAUSE** key to stop study. The pause icon “||” will appear in the lower right corner of the display.
14. Remove the microphone and NoisePro from the subject. Tip: It’s best not to handle the microphone while the NoisePro is collecting data (in Run mode).

Review Data:

15. From the “START” screen, highlight “**VIEW SESSION**” and press the ← key. Press the various soft keys for **AVG**, **DOSE**, and **SUMRY** to obtain data and data summary. In addition, the arrow keys ▲▼ will scroll through **SPL**, **PEAK**, **MAX**, **MIN**, **LAVG**, **TWA**, **PTWA**, **DOSE**, **PDOSE**, and **RTIME** (Run Time) information. Use the ◀▶ arrow keys to toggle between **HC-1910.95(c)** and **PEL-1910.95(b)(1)** data.
16. Note: “**STUDIES**” are sound level measurements separated by paused periods that allow time for work breaks, lunch period, or to store measurements for separate evaluation (i.e., different job tasks). Studies are grouped together in a session. A typical session consists of the recording of multiple studies in a work day. “**VIEW SESSION**” will give you derived values based on results for **all studies** in the **SESSION**.
17. Example #1: A typical workshift: you would start/run the dosimeter at 7:00 a.m. and pause for lunch at 12:00 p.m. Start/run again at 12:30 p.m. and stop at 3:30 p.m. There are two studies in the same session.
18. Example #2: A worker performs three different job tasks throughout an 8-hour shift. The CSHO wants to know the respective exposure levels for each task, so the dosimeter is paused after each task and the data is recorded. There are three studies in the same session.
19. Record the data on a Quest dosimeter readout worksheet and complete the lower portion of the OSHA-92 form (Dosimeter Data and Exposure Summary sections).

Post-Calibrate Instrument:

20. From the start screen, press and release **CAL** soft key; the “\CAL” screen appears with **CALIBRATE** highlighted. Turn on the calibrator and insert the unit’s microphone into the calibrator using appropriate adapter. Press **↵** key and the **POST-CALIBRATION** screen appears. Note: In a **POST-CALIBRATION**, you are not allowed to adjust the **SPL** value. Press **↵** key to save (store) the **POST-CALIBRATION** value. The “\CAL” screen will show the most recent **PRE-** and **POST-**calibrations that have been performed.

21. Document Post-calibration on OSHA 92 form.

Turn Off:

22. Turn off unit by pressing and holding **On/Off/ESC** key until the display counts down from 5 and then shows a black box and shuts off.

**SUMMARY of OSHA NOISE REQUIREMENTS**

<b>OSHA Noise Limits</b>	<b>Dose to Determine Noncompliance*</b>	<b>OSHA-92 Codes</b>
<i>Hearing Conservation Program: AL = 85 dBA (50% Dose)</i>	66%	8111
<i>Engineering Controls: PEL** = 90 dBA (100% Dose)</i>	132%	8110
<i>* Greater than or equal to the indicated dose.</i>		
<i>** The permissible exposure limit (PEL) is also known as the criterion level. The criterion level is the continuous equivalent 8-hour A-weighted sound level that constitutes 100% of an allowable noise exposure.</i>		