

## Noise Risk Assessment

### Organisation details

|                                     |   |
|-------------------------------------|---|
| <b>Organisation</b>                 | Johnston Systems Ltd  |
| <b>Location</b>                     | Hillingdon Industrial Estate, compound 3, back machine shop |
| <b>Person completing assessment</b> | Simon Fuller  |
| <b>Date</b>                         | 03-08-2017  |

### Describe the task or tasks being assessed

Noise assessment for Brain Kennedy, mobile electrical engineer  
Noise measured with a Casella CEL633 noise meter, calibrated 12/06/2107

### Is a noise risk assessment needed?

Do staff need to shout to be heard by a person up to 2 metres away?

|            |   |
|------------|---|
| <b>Yes</b> | X |
| <b>No</b>  |   |

Are loud tools and/or machines used in the workplace?

|            |   |
|------------|---|
| <b>Yes</b> |   |
| <b>No</b>  | X |

Do your employees work in a noisy environment?

|            |   |
|------------|---|
| <b>Yes</b> | X |
| <b>No</b>  |   |

Is noise caused by impacts or explosions?

|     |   |
|-----|---|
| Yes |   |
| No  | X |


If you have answered No to all of these questions, you can skip the remaining questions and go to the Download this form button below. You will then have a record showing there is no need to carry out a noise risk assessment.

Person or group of people exposed

|                 |   |
|-----------------|---|
| Who is exposed? | Brain Kennedy, mobile electrical engineer |
|-----------------|---|

Total exposure

Use the figures you generated and put them into the HSE's web-based noise exposure calculator from [www.hse.gov.uk/noise/calculator.htm](http://www.hse.gov.uk/noise/calculator.htm) to calculate exposure points. For each category of person or individual, you need to enter an estimated noise level in the noise level column that relates to each of the sources/activities identified, followed by the duration of exposure in hours.



You can enter data in the white cells only

|  | Noise Level<br>(L <sub>Aeq</sub> dB) | Exposure<br>duration (hours) | Exposure points<br>(job/task) | Exposure points<br>per hour |
|--|--------------------------------------|------------------------------|-------------------------------|-----------------------------|
| Job / task 1                                   | 83                                   | 6                            | 47                            | 8                           |
| Job / task 2                                   | 87                                   | 0.7                          | 14                            | 20                          |
| Job / task 3                                   | 89                                   | 0.5                          | 16                            | 31                          |
| Job / task 4                                   | 104                                  | 0.25                         | 248                           | 993                         |
| Job / task 5                                   |                                      |                              |                               |                             |
| Job / task 6                                   |                                      |                              |                               |                             |
| Job / task 7                                   |                                      |                              |                               |                             |
| Job / task 8                                   |                                      |                              |                               |                             |
| Total duration                                 |                                      | 7.45                         |                               |                             |
| <b>Daily noise exposure (L<sub>EP,d</sub>)</b> |                                      | <b>90 dB</b>                 | <b>325 points</b>             |                             |

You can also calculate weekly noise exposure using the HSE calculator using daily noise exposure figures:

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**Weekly Noise Exposure Calculator**

**Daily exposure (L<sub>EP,d</sub> dB)**

|       |    |
|-------|----|
| Day 1 | 83 |
| Day 2 | 82 |
| Day 3 | 85 |
| Day 4 | 90 |
| Day 5 | 82 |
| Day 6 |    |
| Day 7 |    |

**L<sub>EP,w</sub> 86 dB**

### Source of noise

| What is the source of noise or the task involved? | Noise level in decibels (dB) | How many hours are people exposed for? | Task exposure points |
|---|------------------------------|--|----------------------|
| Machine show background noise                     | 83                           | 6                                      | 43                   |
| No 5 milling machine when running                 | 87                           | .7                                     | 14                   |
| Fixed extractor fan run down                      | 89                           | .5                                     | 16                   |
| Alarm testing (pre delivery of systems)           | 104                          | .25                                    | 248                  |

### Total exposure

|  |  |
|--|--|
| <b>What is the daily noise exposure? (dB)</b>  | 90 (this was recorded on day 4 of the week)      |
| <b>What is the weekly noise exposure? (dB)</b> | 86 (you might chose to do only daily recordings) |
| <b>Peak noise level (dB)</b>                   | 104  |

### Action plan

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## Action points

Peak noise exposure below action levels

Overall daily noise exposure is high at 90db(A), actions are required

- 1) Highest noise exposure comes from Alarm testing at 104 db(A) with task exposure points at 248
- 2) And daily workshop background noise at 83 db(A) with task exposure points at 47

Actions for (1)

- Determine best hearing protection for noise frequency and discuss with PPE supplier
- Discuss with alarm engineer whether the alarm ringer time can be reduced during the test.
- Consider the possibility of testing the alarm remotely by using cable system or remote control, reducing the need of being within the area affected to set off the alarm.
- Make sure no one else is in that space during testing
- Source sound booth and auto fire system for alarm testing

Actions for (2)

Workshop background noise from extraction systems and air conditioning unit.

- Ensure that either units are switched off when not needed, explain to employees why this is needed and how to do it.
- Provide hearing protection for staff use in the area, use toolbox talk with staff about its usage, maintenance and disposal. Ensure managers and supervisors are vigilant and monitor hearing protection use.
- Provide information and training of the risk posed by noise at work. Purchase pocket card from HSE called 'Don't lose your hearing' for each member of staff and schedule toolbox talk to explain and discuss noise risks with employees.
- Look at wall coverings and determine whether they are noise absorbing or noise reflecting. Consider changing coverings around equipment to reduce noise reflection.
- Reduce free standing exhaust ventilation system vibration and rattle. Carry out maintenance on unit (tighten bolts, change filters, fix loose cover etc)
- Obtain an absorbent mat floor covering under kit

|                                |              |
|--------------------------------|--------------|
| <b>Person responsible</b>      | Simon Fuller |
| <b>Planned date for review</b> | 24-11-2017   |
| <b>Review</b>                  |              |
| <b>Date</b>                    | 05-12-2017   |



## Outcomes

|  |
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|  |
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