

# Risk Assessment

## RA011 – Use of Abrasive Wheels



|                        |                         |
|------------------------|-------------------------|
| ABI Equipment Ltd      | Creation Date: 28/09/12 |
| Use of Abrasive Wheels |                         |

| Main Hazards are:                          |  |
|--|--|
| Burst wheel/disc                           | Flying particles during cutting or grinding operations |
| Entanglement in moving parts               | Flying particles of dust & sparks                      |
| Contact with wheel/disc                    | Noise and Vibration                                    |
| Flying particles from fractured wheel/disc | Inhalation of Dust particles                           |
| Persons / Property affected                |  |
| All Employees                              | General Public   |

|                     |          |   |   |            |   |        |    |
|---------------------|----------|---|---|------------|---|--------|----|
| Assessment of Risk: | Severity | 4 | X | Likelihood | 3 | = Risk | 12 |
|---------------------|----------|---|---|------------|---|--------|----|

| Control Measures already in Place  | PPE Required  |
|--|---|
| 1. Abrasive wheels checklist to be completed before the use of each item.  | Safety helmets <input type="checkbox"/>                 |
| 2. All tools to me labelled with Vibration information.  | Hi-Vis Jackets <input type="checkbox"/>                 |
| 3. All employees to be issued with a HAVS logbook.   | Safety footwear <input checked="" type="checkbox"/>     |
| 4. Adequate numbers of operatives should be appointed and trained to change abrasive wheels and discs.                                     | Eye protection <input checked="" type="checkbox"/>      |
| 5. Each appointee should carry proof of authorisation.   | Dust masks <input checked="" type="checkbox"/>          |
| 6. Correct type of wheels/discs to suit the type of work and spindle speeds, etc. should be available.                                     | Ear plugs <input type="checkbox"/>                      |
| 7. Wherever practicable, abrasive wheels should be fitted with working guards designed to contain every part of the wheel if it fractures. | Earmuffs <input checked="" type="checkbox"/>            |
| 8. Good ventilation should be in place if dust is a hazard.  | Gloves <input checked="" type="checkbox"/>              |
| 9. Abrasive wheels should be stored in a dry area that is not susceptible to extreme temperatures.   | Protective overalls <input checked="" type="checkbox"/> |
| 10. Proper storage facilities for wheels and discs should be available.  | Gauntlets <input type="checkbox"/>                      |
| 11. All discs should be inspected for damage before being fitted.  | Harnesses <input type="checkbox"/>                      |
| 12. All cutters and grinders should be regularly maintained.   | Breathing apparatus <input type="checkbox"/>            |
| 13. No loose clothing should be worn.  | Face masks <input checked="" type="checkbox"/>          |
| 14. Regular vibration audit to be undertaken every year.   |   |

|                     |          |   |   |            |   |        |   |
|---------------------|----------|---|---|------------|---|--------|---|
| Assessment of Risk: | Severity | 3 | X | Likelihood | 2 | = Risk | 6 |
|---------------------|----------|---|---|------------|---|--------|---|

| Additional Controls required   | PPE/Equipment   |
|--|---|
| All personnel involved in the work should be trained to perform their duties with due regard to the health and safety of themselves and anyone else who could be affected. | All personnel MUST wear the appropriate level of PPE for the activity they are involved with or area they are in. |
| The employee must be adequately trained and competent to change and use abrasive wheels.   |   |
| Newly trained staff should be supervised until a suitable level of competency has been achieved.   |   |

|                     |          |   |   |            |   |        |   |
|---------------------|----------|---|---|------------|---|--------|---|
| Assessment of Risk: | Severity | 3 | X | Likelihood | 2 | = Risk | 6 |
|---------------------|----------|---|---|------------|---|--------|---|

# Risk Assessment

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| Approval and Review |               |            |
|---------------------|---------------|------------|
| Prepared by:        | Cathy Sheehan | 28/09/2012 |
| Updated by          | Ash Soliman   | 16/09/2024 |
| Review by:          | Ash Soliman   | 16/09/2024 |

| RISK RATING<br>= L x S |   |               | Hazard Severity (S) |        |        |        |        |
|------------------------|---|---------------|---------------------|--------|--------|--------|--------|
|                        |   |               | 1                   | 2      | 3      | 4      | 5      |
| Likelihood (L)         | 1 | Very Unlikely | LOW                 | LOW    | LOW    | LOW    | LOW    |
|                        | 2 | Unlikely      | LOW                 | LOW    | LOW    | MEDIUM | MEDIUM |
|                        | 3 | Possible      | LOW                 | LOW    | MEDIUM | HIGH   | HIGH   |
|                        | 4 | Likely        | LOW                 | MEDIUM | HIGH   | HIGH   | HIGH   |
|                        | 5 | Very Likely   | LOW                 | MEDIUM | HIGH   | HIGH   | HIGH   |

| Likelihood       |   |
|------------------|---|
| 1. Very Unlikely | A freak combination of factors would be required for an accident/incident to occur  |
| 2. Unlikely      | A rare combination of factors would be required for an accident/incident to occur   |
| 3. Possible      | Could happen when accidental factors are present but otherwise unlikely   |
| 4. Likely        | Not certain to happen but an additional factor may result in an accident/incident   |
| 5. Very Likely   | Almost inevitable that an accident/incident would occur   |
| Hazard Severity  |   |
| 1. Negligible    | Negligible injury, no absence from work   |
| 2. Slight        | Minor injury requiring first aid  |
| 3. Moderate      | Injury leading to a lost time accident  |
| 4. High          | Involving a single person with a serious injury / death   |
| 5. Very High     | Multiple persons with serious injury / death  |
| Outcomes         |   |
| LOW              | Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further   |
| MEDIUM           | Score (8-10) Identify controls must be identified or specific method statement required   |
| HIGH             | Score (12-25) Task <b>must not</b> proceed. Senior Management to consider if the risks can be reduced by purchase of additional training, additional equipment, additional staff, additional signage, safe system of work, permit to work or radical changes in method. |

|                   |                                     |
|-------------------|-------------------------------------|
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| Prepared by       | Cathy Sheehan                       |
| Reviewed by       | Ash Soliman                         |
| Next review Date  | September 2027                      |