#### National Space Centre - Risk Assessment Form

#### General Risk Assessment Reference – G403

| **Location** | National Space Centre |
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| **Equipment or Activity to be assessed** | Making Telescopes |
| **Description of Activity** | Telescopes are made using a metre rule, two lenses and some blue tack. The blue tack is used to attach the lenses to the rule, having established their focal length. Glasses lenses are used. |
| **Date of assessment** | 02/10/2024 |
| **Last review date (if applicable)** | 22/04/2024 |
| **Next review date** | October 2025 but earlier review date required following outcomes of accidents, absences and near misses, or changes to processes, work methods, materials, technology, equipment or legislation.  |
| **Risk Assessment created by [name / date]** | Sophie Allan [02/10/2024] |
| **Authorised by Line Manager [name / date]** | Sophie Allan [02/10/2024] |
| **Authorised by Health and Safety Manager [name/ date]** | Katrina May Neve [03/10/2024] |

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| **What are the hazards?***Something with the potential to cause harm* | **Who might be harmed and how?** | **Control Measures***What is already in place to reduce the risk?* | **Additional Control Measures***What needs to be put in place to further reduce the risk?* | **Risk Rating***Refer to risk matrix below* | **Authorised by Health and Safety Manager**  |
| Broken glass | **Who**Staff and students**How**Cuts | Participants instructed that care must be taken with the lenses and shown how to fix lenses to rulers carefully. Observation of participants at all times.  |  | Likelihood: 1Severity: 2Risk Rating: 2[Low] | Katrina May NeveHealth and Safety Officer[03/10/2024] |
| Hit by rulers | **Who**Staff and students**How**Cuts, bruises | Participants give a verbal warning not to swing the ruler or telescope around to avoid hitting someone. Observation of participants at all times.  |  | Likelihood: 1Severity: 2Risk Rating: 2[Low] | Katrina May NeveHealth and Safety Officer[03/10/2024] |
| Using the telescope to look at the sun  | **Who**Staff and students**How**Eye damage | Participants given a verbal warning to not look at the sun.  |  | Likelihood: 1Severity: 3Risk Rating: 3[Low] | Katrina May NeveHealth and Safety Officer[03/10/2024] |

**Risk Rating Matrix**

**Risk = Likelihood of injury x Severity of injury**

**R = L x S**

**Low risk = 1 – 6, Medium risk = 8 - 12, High risk = 15 - 25**

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|  | **S = Severity of injury** |
| **Minor injury or illness (1)** | **First aid injury or illness (2)** | **3-day injury or illness (3)** | **Major injury or illness (4)** | **Fatality, disabling injury, etc (5)** |
| **L = Likelihood of injury** | Very unlikely (1) | 1 = Low | 2 = Low | 3 – Low | 4 = Low | 5 = Low |
| Unlikely (2) | 2 = Low | 4 = Low | 6 = Low | 8 = Medium | 10 = Medium |
| Likely (3) | 3 = Low | 6 = Low | 9 = Medium | 12 = Medium | 15 = High |
| **Very likely (4)** | 4 = Low | 8 = Medium | 12 = Medium | 16 = High | 20 = High |
| **Almost certain (5)** | 5 = Low | 10 = Medium | 15 = High | 20 = High | 25 = High |

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|  | **Risk Rating Definitions and Guidelines** |
| **Low** | **Minor to no injury.**This is an acceptable level of risk. No further controls are required as the risk rating cannot be reduced any further. However, it is advised continual monitoring occurs to ensure that no changes/deviation of control measures occur.  |
| **Medium** | **An injury requiring further medical assistance or is a RIDDOR related incident.**It is advised that further control measures are implemented to reduce the risk rating to a low a level as possible. If the risk cannot be reduced to lower than a medium, then on-site monitoring should occur to ensure that all stipulated controls are bring adhered to.  |
| **High** | **Death, paralysis, long term serious ill health.** This is an unacceptable risk rating. Urgent interim controls should be implemented to reduce the risk so far as is reasonably practicable. If the risk rating cannot be reduced to lower than high, then a documented safe system of work should be implemented to control the activity. It may be necessary to seek further professional advice. Serious consideration should be given to the validity of carrying out the activity at all. Regular Monitoring of the activity should occur.  |