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| **Risk Assessment** |
| **Risk Assessment for the activity of** | **Red Bull Soapbox Race – London – Alexandra Palace** | **Date** | **3/6/22** |
| **Responsible Committee member** | **Ethan Young – President** |
| **Responsible Committee member** | **Ben Beasley – Vice President** |

| ***PART A***  |
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| **(1) Risk identification** | **(2) Risk assessment** | **(3) Risk management** |
| **Hazard** | **Potential Consequences** | **Who might be harmed****(user; those nearby; those in the vicinity; members of the public)** | **Inherent** |  | **Residual** | **Further controls (use the risk hierarchy)** |
| **Likelihood** | **Impact** | **Score** | **Control measures (use the risk hierarchy)** | **Likelihood** | **Impact** | **Score** |
| Crash During Race | Injury to driver and viewers of race | Driver and public | **2** | **3** | **6** | **Driver will be given protective gloves, kneepads and helmet. Red Bull will provide first aid if necessary, providing checks on the kart prior to the race to ensure its safety against their rigorous standards. Sharp areas of kart will be covered with protective padding. Haybails and marshals will protect the public from any risk** | **1** | **3** | **3** | Vice-President will be responsible for having a first aid kit available at all session. For more severe injurys 999 or 111 will be used. Any injurys will be reported to SUSU: <https://www.susu.org/groups/admin/howto/>protectionaccident. Injurys will also be reported to Red Bull marshals. |
| Injury or accident during transportation | Injury, damage costs incurred, unable to attend event | Driver, passengers, public | **2** | **4** | **8** | **Society will hire a van rather than using trailers to minimise risk. Driver will have multiple years of experience.** | **1** | **4** | **4** | Vice-President will be responsible for having a first aid kit available at all session. For more severe injurys 999 or 111 will be used. Any injurys will be reported to SUSU: <https://www.susu.org/groups/admin/howto/>protectionaccident. Injurys will also be reported to Red Bull marshals. |
| Loss of equipment | Costs incurred replacing society equipment | N/A | **2** | **1** | **2** | **Equipment will be kept together, and not given to those outside the group. Toolbox has been requested in grant to assist with this** | **1** | **1** | **1** | N/A |
| On Site Repair Injury | Minor Cuts and scrapes from use of small power tools and hand tools | Race Team | **2** | **1** | **2** | **Protective equipment will be brought and all race team members are experienced using this equipment** | **2** | **1** | **2** | Vice-President will be responsible for having a first aid kit available at all session. For more severe injurys 999 or 111 will be used. Any injurys will be reported to SUSU: <https://www.susu.org/groups/admin/howto/>protectionaccident. Injurys will also be reported to Red Bull marshals.  |
| Fire | Damage to property, Burns | Race Team, members of public in vicinity. | **1** | **4** | **4** | **Race is held outdoor and no electronics are used on the kart so risk is very low. Marshalls are equipped with fire extinguishers in near vicinity so any fire can be quickly extinguished.** | **1** | **4** | **4** | Fires which cannot be controlled will be reported to 999, and any injurys reported to susu at <https://www.susu.org/groups/admin/howto/>protectionaccident |
| Covid | Transmission of COVID-19, resulting in illness | Attendees to event | **3** | **1** | **3** | **Race will be held outdoors for reduced transmission. Face masks can be work as per preference and all attendees will be warned not to attend if feeling unwell or showing symptoms** | **2** | **1** | **2** | Covid cases will be reported through the university and through track and trace. |
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| ***PART B – Action Plan*** |
| **Risk Assessment Action Plan** |
| **Part no.** | **Action to be taken, incl. Cost** | **By whom** | **Target date** | **Review date** | **Outcome at review date** |
| 1 | Scrutineering of kart prior to race, to confirm safety for driver and spectators | Red Bull Engineers | 2/7/22 | 3/7/22 |  |
| 2 | Initial scrutineering of kart to confirm safety and allow time for changes to be made prior to final scrutineering stage and race. | Red Bull Engineers | 31/5/22 | 9/6/22 |  |
| 3 | Share Risk assessment with organisers and those attending the race with the society | Committee Members | 9/6/22 | 16/6/22 |  |
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| **Responsible Committee member’s signature:** | **Responsible Committee member’s signature** |
| Print name: E Young | Date:25/4/22 | Print name: B Beasley | Date:25/4/22 |

**Assessment Guidance**

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| 1. Eliminate
 | Remove the hazard wherever possible which negates the need for further controls | If this is not possible then explain why |  |
| 1. Substitute
 | Replace the hazard with one less hazardous | If not possible then explain why |
| 1. Physical controls
 | Examples: enclosure, fume cupboard, glove box | Likely to still require admin controls as well |
| 1. Admin controls
 | Examples: training, supervision, signage |  |
| 1. Personal protection
 | Examples: respirators, safety specs, gloves | Last resort as it only protects the individual |

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| **LIKELIHOOD** | 5 | 5 | 10 | 15 | 20 | 25 |
| 4 | 4 | 8 | 12 | 16 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 |
| 2 | 2 | 4 | 6 | 8 | 10 |
| 1 | 1 | 2 | 3 | 4 | 5 |
|  | 1 | 2 | 3 | 4 | 5 |
| **IMPACT** |

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| Impact | Health & Safety |
| 1 | Trivial - insignificant | Very minor injuries e.g. slight bruising |
| 2 | Minor | Injuries or illness e.g. small cut or abrasion which require basic first aid treatment even in self-administered.  |
| 3 | Moderate | Injuries or illness e.g. strain or sprain requiring first aid or medical support.  |
| 4 | Major  | Injuries or illness e.g. broken bone requiring medical support >24 hours and time off work >4 weeks. |
| 5 | Severe – extremely significant | Fatality or multiple serious injuries or illness requiring hospital admission or significant time off work.  |

Risk process

1. Identify the impact and likelihood using the tables above.
2. Identify the risk rating by multiplying the Impact by the likelihood using the coloured matrix.
3. If the risk is amber or red – identify control measures to reduce the risk to as low as is reasonably practicable.
4. If the residual risk is green, additional controls are not necessary.
5. If the residual risk is amber the activity can continue but you must identify and implement further controls to reduce the risk to as low as reasonably practicable.
6. If the residual risk is red do not continue with the activity until additional controls have been implemented and the risk is reduced.
7. Control measures should follow the risk hierarchy, where appropriate as per the pyramid above.
8. The cost of implementing control measures can be taken into account but should be proportional to the risk i.e. a control to reduce low risk may not need to be carried out if the cost is high but a control to manage high risk means that even at high cost the control would be necessary.

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| Likelihood |
| 1 | Rare e.g. 1 in 100,000 chance or higher |
| 2 | Unlikely e.g. 1 in 10,000 chance or higher |
| 3 | Possible e.g. 1 in 1,000 chance or higher |
| 4 | Likely e.g. 1 in 100 chance or higher |
| 5 | Very Likely e.g. 1 in 10 chance or higher |