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| **Description of the activity, equipment or area under assessment**  Training and matches shot at the Queen Elizabeth Way Range by CU Revolver and Pistol Club using air pistols and small-bore rifles |

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| **Significant hazards** | **What could go wrong** | **Risk level**  (High, Medium or Low) | **Existing control measures** | **Further actions** |
| Firing live weapons | Any person on the range may be shot | High | Follow standard safe gun handling and storage procedures as set out by NSRA and club rules, e.g. keep guns pointing down range or at ceiling; ensure that all guns are clear before putting into secure storage. *Training given to all members as a requisite for membership. If a person is deemed unsafe by the coach or committee, that individual is offered further safety training*. | None |
| Miss-fired rounds | Round may go off unexpectedly some time after trigger has been pulled | Low | Keep weapon pointing down range for 1 minute, then remove miss-fired round and place in designated container. Not applicable to air pistols/rifles. | None |
| Handling lead rounds | Lead from ammunition rubs onto hands, then enters body through eating etc. | Medium | Always wash hands after handling ammunition | None |
| Inhalation of propellant fumes | Fumes from fired ammunition builds up in lungs leading to respiratory illness | Low | Ventilation fans are automatically turned on whenever the range lights are turned on. | None |
| Hearing damage | Prolonged exposure to gunfire may lead to hearing loss | Medium | Ear defense is worn whenever live ammunition is in use. *Ear defense is additionally offered to, but not required by, all members during air pistol use.* | None |

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| **Significant hazards** | **What could go wrong** | **Risk level**  (High, Medium or Low) | **Existing control measures** | **Further actions** |
| Eye damage from ejected rifle cases | Ejected cases may hit adjacent shooters at some speed, possibly in the eye | Low | Shooters are properly spaced when firing. The firing point when using ejecting cases includes screens which block most ejected cases. Shooting glasses are provided by the Club. | None |
| Injury from recoil | The recoil from rifles could cause minor injury if not properly controlled | Low | Only small-bore ammunition is shot (low recoil) and shooters are trained to hold the rifle correctly | None |
| Jams and blockages | An inexperienced shooter may try to rectify the problem incorrectly, damaging themselves or the equipment | Low | All shooting is supervised by an experienced Range Conducting Officer familiar with the guns in use. | None |
| Turning targets | The club’s turning targets move quickly with some force and could injure anyone in the way | Medium | When targets are being changed, the controller is left on a table so no buttons are accidentally pressed. Otherwise, whenever the targets are powered, users should keep clear of the turning portions where possible | None |
| Primers | The primers used for making ammunition can be sensitive to shock and may explode | High | Primers are stored in their proper packaging in a separate safe to any propellant powder. When stacked in the reloading press, they are contained in a specially designed blast tube. | None |
| Propellant | Nitro-powder & compressed air used in reloading can explode under some circumstances | Medium | The powder is stored in its proper packaging in a separate safe to any primers. It is kept away from heat or direct sunlight. | None |
| Reloading ammunition | Rounds may be assembled incorrectly causing safety risks later or ignition may be caused during assembly | Medium | All reloading is carried out under the supervision of an experienced member. Only equipment intended for the purpose is used and it is all checked before use. Checks are made during production to ensure the rounds are produced to specification. Eye protection is worn. | None |
| Travelling to competitions | Road traffic incident, causing minor or severe harm. | Medium | *The club has very few trips. For those that do occur, a separate risk assessment is carried out and discussed with both the CURPC members attending and the University Sports Centre.* | None |
| Manual handling | Musculoskeletal injuries | Low | *Heavy equipment, e.g. oxygen tank, is handled only the committee. Other members who move heavy equipment do so at their own risk and deem themselves competent to lift safely. We have a First Aider (at least one of: committee or coach) on hand and First Aid kit (within the Range common room & brought on club trips).* |  |
| Building with only one fire exit | Fire | Medium | *We run through the emergency exits with all new and existing members every term. It is the CSA’s responsibility to keep the fire alarms in working order. Phone signal is accessible in the range for calling 999. We run a mock fire-alarm procedure once a year.* |  |
| Any change in the safety of the existing control measures will be re-evaluated and remediated. Near-misses and incidents are documented with the University and flagged to the Cambridge Shooting Association who run the range. This Health and Safety document will be reviewed once a year by the Secretary of the club. The review includes analysis of accident ill health and near misses; Review of risk assessments; Safety breaches; Equipment failure or deterioration; and Review of site. Our expert advice comes from RCO training from the National Governing Body for small-bore firearms (NSRA) and from the NRA. This ensures that our safety guidance is up to date. | | | | |

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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| Eye Protection  Ear Protection  Overalls  Gloves | **Yes**  **Yes**  Yes  Yes | No  No  **No**  **No** | Type/standard: Shooting glasses  Type/standard: >20dB reduction earmuffs  Type/standard:  Type/standard: |
| Respiratory Protection  Other | Yes  Yes | **No**  No | Type/standard:  Specify: |

**HEALTH SURVEILLENCE**

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| Is Special Monitoring required? (e.g. hearing test, eye test, health surveillance).  No |

**EMERGENCY PROCEDURES**

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| Action to be taken in case of reasonably foreseeable emergencies (e.g. overheating, loss of electricity, flooding): -  Exit range via fire escapes.  Torches are stored in the range.  First Aid kid stored at the range and a First Aider is on hand at the range for training sessions. |
| Any special First Aid Measures required? No. |

### ASSESSOR

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| **Name of assessor:** | **Signature:** | **Date** | **Name of Supervisor:** | **Signature:** | **Date** |
| Bonan Zhu |  | 15/14/2016 |  |  |  |

### REVIEW DATES

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| **Reviewed by (name)** | **Signature** | **Date** | **Indicate changes here** |
| Andrei Kanavalau |  | 14/04/2019 | Existing control measures for firing live weapons modified to include storage |
| Jonathan Honey |  | 19/02/2020 | Existing control measures have had no injuries or near misses to report. The club continues to vet members for their safety ability and provides further training as appropriate. We also now include a tally sheet to ensure all equipment is accounted for when leaving the range. |
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