



# Risk Assessment

## Air Rifle Shooting

### Document Control

Issue #	Written By	Approved By	Review Due
1	A. Templer (02.07.2018)	L. Upton (05.07.2018)	05.01.2020
2	M. Davenport (07.05.2023)	L. Upton (07.05.2023)	07.05.2024
3	M. Davenport (07.05.2023)	L. Upton (07.05.2023)	07.05.2024
4	M. Davenport (03.04.2024)	L. Upton (03.04.2024)	03.04.2025

### Description of Severity, Probability and Risk Factors

<b>S = Severity</b>	<b>Description</b>	<b>P = Probability</b>	<b>Description</b>	<b>R.F. = Risk Factor</b>	<b>Description</b>
1 Insignificant	No Injury No financial loss	1 Rare	Conveivable but only in extreme circumstances	1 3	Low Risk. Very little risk of harm to participants
2 Minor	First aid treatment Some financial loss or penalty	2 Unlikely	Hasn't happened yet, but could still happen	4 9	Moderate Risk. Very little risk of harm to participants if control measures are followed.
3 Moderate	Medical treatment required Financial loss or penalty	3 Possible	Could happen or has happened infrequently in the past	12 15	High Risk Some acceptable residual risk to participants. Enhanced control measures must be followed.
4 Major	Medical treatment in hospital required Significant financial loss or penalty	4 Likely	Could easily happen or has happened more frequently in the past	16 25	Catastrophic Risk Unacceptable level of risk
5 Catastrophic	Death Massive financial loss or penalty	5 Almost Certain	Often occurs		

Hazard	Involved	Risk	Control Measures	Residual Risk	Acceptable
Inappropriate Lighting	Participants and Instructors	P = 2 - UNLIKELY S = 3 - MODERATE R.F. = 6 - MODERATE	Ensure that all range and target lighting is on.  Report any defects to the site service team immediately.  If appropriate repairs cannot be affected, it is the responsibility of the range officer in charge to determine whether the session can continue or not.	P = 1 - RARE S = 1 - INSIGNIFICANT R.F. = 1 - LOW	YES
Inappropriate Temperature	Participants and Instructors	P = 2 - UNLIKELY S = 3 - MODERATE R.F. = 6 - MODERATE	Ensure that all heaters are on in cold weather.  Report any defects to the site service team immediately.  If appropriate repairs cannot be affected, it is the responsibility of the range officer in charge to determine whether the session can continue or not.	P = 1 - RARE S = 1 - INSIGNIFICANT R.F. = 1 - LOW	YES
Slips, trips, falls and collisions with surrounding objects or people.	Participants and Instructors	P = 2 - UNLIKELY S = 2 - MINOR R.F. = 4 - MODERATE	Potential slip/trip/fall hazards are clearly marked and highlighted to participants in the initial safety briefing.  If using the outdoor range, checks should be done to ensure that all sources of potential slips/trips/falls are identified.  Participants are informed during the initial safety briefing that there shall be no running at all on either range.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Electrical Hazard	Participants and Instructors	P = 2 - UNLIKELY S = 3 - MODERATE R.F. = 6 - MODERATE	Ensure all electrical equipment that is to be used during a session is in good working order.  Visual checks for bare wires shall be performed before use.  Any defective equipment shall be reported to site services immediately.  Participants are informed about any electrical equipment they may need to use during the safety briefing.	P = 1 - RARE S = 3 - MODERATE R.F. = 3 - LOW	YES
Gas / Electrical Heaters	Participants and Instructors	P = 2 - UNLIKELY S = 3 - MODERATE R.F. = 6 - MODERATE	The use and position of any gas / electrical heaters shall be pointed out to participants during the initial safety briefing.  Any gas / electrical heater to be used shall be in good working order.  Visual checks shall be performed prior to use and any defective equipment shall be reported to site services immediately and not used.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Pinch injury / trapped body parts or clothing from breach of break-barrel airguns or injury from equipment with	Participants and Instructors	P = 2 - UNLIKELY S = 2 - MINOR R.F. = 4 - MODERATE	This hazard shall be highlighted to participants during the initial safety briefing.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES

moving parts.

Extremes of Weather	Participants and Instructors	P = 3 - POSSIBLE S = 4 - MAJOR R.F. = 12 - HIGH	The range officer in charge shall continually monitor the situation and apply control measures as deemed appropriate to the exact situation. Possible control measures for this hazard include use of the outdoor shelter, moving inside to use the indoor shelter (if available) or cancelling the session.	P = 3 - POSSIBLE S = 1 - INSIGNIFICANT R.F. = 3 - LOW	YES
Lack of Information, Training or Instruction or unsafe behaviour or attitude	Participants and Instructors	P = 2 - UNLIKELY S = 4 - MAJOR R.F. = 8 - MODERATE	Participants shall be monitored by the range officer in charge and offer additional assistance / training if it is deemed necessary.  All participants are given an initial safety briefing before shooting commences which shall include the rules to be followed during the session.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Insufficient planning, organisation or delivery of session	Participants and Instructors	P = 1 - RARE S = 4 - MAJOR R.F. = 4 - MODERATE	Shooting sessions are organised by the range offer in charge of each session.  Shooting only occurs during a session while the range officer in charge is present.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Lack of appropriate First Aid equipment or Experience	Participants and Instructors	P = 1 - RARE S = 4 - MAJOR R.F. = 4 - MODERATE	First aid kit to be present on the shooting range while session underway.  Equipment in first aid kit to be checked regularly to ensure that all items are in-date.  Any out of date items to be replaced.  Qualified first aider to be present for all sessions.	P = 1 - RARE S = 1 - INSIGNIFICANT R.F. = 1 - LOW	YES
Medical Conditions of Participants or low level of physical strength	Participants	P = 1 - RARE S = 3 - MODERATE R.F. = 3 - LOW	Range offer giving the initial safety briefing to ask participants inform (confidentially if desired) a member of the instructor team if they have any pre-existing conditions which may affect their performance or ability during session.  Range officer in charge to continually monitor participants during the session and offer extra help / instruction if required.  If participants are unable to hold the gun by themselves, rifle stands or bipods can be offered.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Pellet Wounds	Participants and Instructors	P = 2 - UNLIKELY S = 4 - MAJOR R.F. = 8 - MODERATE	Details of this hazard to be included in initial safety briefing.  Close supervision of participants while on the range by range officers.  Range officers to control access to firearms.  First Aid equipment and first aid qualified instructor to be available.	P = 1 - RARE S = 4 - MAJOR R.F. = 4 - MODERATE	YES
Riccochet	Participants and	P = 1 - RARE	Range design and minimum muzzle velocity make likelihood of ricochet low. May	P = 1 - RARE	YES

	Instructors	S = 4 - MAJOR R.F. = 4 - MODERATE	occur if backing carpet is hit by pellet.  Close supervision of participants by range officers.	S = 4 - MAJOR R.F. = 4 - MODERATE	
Explosion of compressed air cylinders	Instructors	P = 2 - UNLIKELY S = 4 - MAJOR R.F. = 8 - MODERATE	Only authorised people to operate the air cylinder.	P = 1 - RARE S = 4 - MAJOR R.F. = 4 - MODERATE	YES
Noise from Equipment	Participants and Instructors	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	Included in initial safety briefing.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES
Manual Handling	Instructors	P = 2 - UNLIKELY S = 3 - MODERATE R.F. = 6 - MODERATE	Instructors to be given instruction on correct manual handling procedures during annual refresher training sessions.  Care to be taken when moving trestle tables.	P = 1 - RARE S = 3 - MODERATE R.F. = 3 - LOW	YES
Exposure to Lead from pellets	Participants and Instructors	P = 4 - LIKELY S = 4 - MAJOR R.F. = 16 - CATASTROPHIC	Participants are informed about the pellets containing lead during the safety briefing.  Participants and instructors are to wash their hands immediately after the session and before eating/drinking.  Contact time with the lead pellets to be kept to a minimum so as to minimise the contact exposure.	P = 1 - RARE S = 2 - MINOR R.F. = 2 - LOW	YES