

# Risk Assessment – Mobile Laser Tag

| Hazard Area | Risk                                   | Existing Controls   | Likelihood<br>1 - 5 | Severity<br>1 - 5 | Risk Score<br>L x S | Further Action to take  |
|-------------|--|---|---------------------|-------------------|---------------------|---|
| Laser Tag   | Cables and power                       | All power cables made in-accessible to none authorized persons.   | 1                   | 4                 | 4                   | All areas containing power cables to be cordoned off with high visibility barriers.   |
| Laser Tag   | Foreign objects                        | Regular inspections of the playing area to remove any objects that have been dropped by players.  | 1                   | 1                 | 1                   | Players will be allowed to leave personal possessions outside the playing area at their own risk.   |
| Laser Tag   | Problem players                        | Operators will monitor the games to deter anyone with intention to cause damage to the equipment or inflict harm on anyone.                                       | 2                   | 2                 | 4                   | Problem players will be noted by the operators and refused future participation in the interests of Health and Safety. On site security (if any), will be informed of the offending persons.  |
| Laser Tag   | Weather conditions                     | The inflatable arena will be anchored at all times by the pegs supplied.  | 1                   | 1                 | 1                   | Operators will use their discretion concerning weather conditions.  |
| Laser Tag   | Tripping hazards internal              | Users of the equipment will be informed of raised areas inside the inflatable, and advised accordingly.   | 1                   | 1                 | 1                   | Operators will brief players on safety before being allowed to play.  |
| Laser Tag   | Tripping hazard external               | All pegs used to secure the inflatable will be flush with the ground when possible and within the cordoned off area.  | 1                   | 1                 | 1                   | Regular checks made by operators during operation of equipment.   |
| Laser Tag   | Special effects                        | Fog added to enhance the game will be harmless to players.  | 1                   | 1                 | 1                   | Manufacturer to supply Health and safety product data report.   |
| Laser Tag   | Physical contact                       | Because of the darkened playing area, players will be told not to run, hide the laser gun or lie down prior to the start of the game.                             | 2                   | 2                 | 4                   | Operators will brief players on safety Issues before being allowed to play.   |
| Laser Tag   | Infra red emissions                    | There is no regulations of low powered infra red emissions.   | 1                   | 1                 | 1                   | None  |
| Laser Tag   | Power failure (Generator)              | Generators will be serviced to the manufacturers recommendation. Fuel levels to be checked hourly when generators are in use.                                     | 1                   | 2                 | 2                   | All operators will know the evacuation procedure in case of power failure. Evacuation Document can be supplied by Momentum on request.  |
| Laser Tag   | Entry & Exit                           | Sufficient space will be left outside the entrance/exit to allow the players to enter and exit unhindered at the start and at the end of the games.               | 1                   | 1                 | 1                   | Operators will keep the area clear of all unnecessary persons and equipment at all times during the operation of the system.  |
| Laser Tag   | Lighting                               | All lighting used in the arena will be of no greater voltage than 24V DC. All transformers will be situated outside of the playing area and cordoned off.         | 1                   | 1                 | 1                   | Momentum can supply Low Voltage lights or recommend types of lighting that is safe to use.  |
| Laser Tag   | Infants                                | Younger children that are afraid of the dark will be allowed to be accompanied by an adult or allowed to exit before the game ends.                               | 1                   | 1                 | 1                   | The exit is to be made highly visible to anyone inside the inflatable. Operators will be aware that some people will not want to take part. Operators will allow people to inspect the playing area before the game to see if it is suitable. |
| Laser Tag   | EMC Emissions (Electro Magnetic force) | Laser gun electronics are completely housed in a steel chassis which has a polarity of 0 volts, this attenuates all EMC emissions to the relevant specifications. | 1                   | 1                 | 1                   | None  |
| Laser Tag   | Laser Emissions                        | Laser modules will be class 2 and emit a laser beam 1mW in power and is acceptable for use by the public.   | 1                   | 1                 | 1                   | Momentum will supply data sheet on lasers used if required.   |
| Laser Tag   | Laser Guns                             | To avoid collisions the laser guns use ultra bright LED's to promote high Visibility. Any damaged guns will be taken out of use immediately.                      | 1                   | 1                 | 1                   | Regular inspections by operators to ensure good condition of laser guns.  |

L=Likelihood S=Severity L\*S= Risk 1=Low 5=High

Risk is worked out using numbers 1 - 5. The likelihood is given a number and this is multiplied by the number given to the severity of the risk.

The result = the risk factor. This generic risk assessment is brief and we have our own individual assessments for each individual risk, 25 being the worst possible outcome, any item reaching 25 would give serious cause for concern & we would not be able to erect the unit. It is recommended that clients undertake their own risk assessment to suit their requirements.