

|                                                                                   |                        |                                    |            |                |
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|                                                                                   | Fireworks Display      |                                    |            |                |
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|                 |                   |             |  |
|-----------------|-------------------|-------------|--|
| Company Name    | XYZ               | Prepared by |  |
| Functional Area | Fireworks Display | Approved by |  |

| S/N | Activities        | Hazard / Hazardous Situation                                                                                                                                                   | Who Might be at Risk?                                                 | Impact                                                                                                                                     | Initial Risk |   |   | Control Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Residual Risk |   |    | Action by                                          |
|-----|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---|----|----------------------------------------------------|
|     |                   |                                                                                                                                                                                |                                                                       | What would be the result of this risk?                                                                                                     | L            | C | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L             | C | RR |                                                    |
| 1   | Fireworks Display | <ul style="list-style-type: none"> <li>Injury caused by fireworks Inadequate space</li> <li>Spectators use fireworks</li> <li>Unauthorized use of display fireworks</li> </ul> | Those near ducting outlet<br>Persons doing the work<br>AC Technicians | <ul style="list-style-type: none"> <li>Property damage/fire</li> <li>Burns</li> <li>Cuts/abrasions, and other physical injuries</li> </ul> | 3            | 3 | M | <ul style="list-style-type: none"> <li>50m x 25m space has been allowed for the firing area.</li> <li>A dropping zone for spent fireworks of 100m x 50m is in place in a downwind direction (check the weather conditions)</li> <li>The Crowd or gathering is to be kept back on the opposite side from the dropping zone approximately 30 meters from the firing zone.</li> <li>The area has been checked and is free from obstructions i.e., trees, overhead power cables and well away from buildings.</li> <li>Suitable secure area for firework storage inaccessible to the public.</li> <li>The firing area was supervised once fireworks were set up.</li> <li>Spectators will not be allowed to</li> </ul> | 1             | 3 | L  | Write here your project engineer/<br>QHSE Engineer |



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|   |                   |                                                                                                                                             |  |                                                                                                                                  |   |   |   | enter the site with their fireworks, including sparklers. A sign explaining this will be at all entrances.                                                                                                                                                                                                                                                                                                                              |   |   |   |                                                    |
|   |                   |                                                                                                                                             |  |                                                                                                                                  |   |   |   | <ul style="list-style-type: none"> <li>Spent firework cases were gathered, and the site also checked at first light for partly spent fireworks.</li> </ul>                                                                                                                                                                                                                                                                              |   |   |   |                                                    |
| 2 | Fireworks Display | <ul style="list-style-type: none"> <li>Injury caused by a bonfire</li> <li>Inadequate space Collapse</li> <li>Excessive sparks</li> </ul>   |  | <ul style="list-style-type: none"> <li>Property damage/fire</li> <li>Burns</li> </ul>                                            | 3 | 3 | M | <ul style="list-style-type: none"> <li>Separation maintained between bonfire and spectators</li> <li>Built away from the display area and min of 50 ft from any building, road etc.</li> <li>Undergrowth/rubbish cleared away</li> <li>Keep to a manageable size (2M high, 3M Dia)</li> <li>No hazardous materials/refuse used</li> <li>Checked before lighting</li> <li>Always supervised</li> <li>Extinguished after event</li> </ul> | 1 | 3 | L | Write here your project engineer/<br>QHSE Engineer |
| 3 | Fireworks Display | <ul style="list-style-type: none"> <li>Use of external companies /contractors</li> <li>Poor practice</li> <li>Lack of competency</li> </ul> |  | <ul style="list-style-type: none"> <li>Property damage/fire</li> <li>Burns</li> <li>Cuts/abrasions, muscular-skeletal</li> </ul> | 4 | 2 | H | <ul style="list-style-type: none"> <li>Vet for competence, operator has good and enough experience with fireworks.</li> <li>Risk assessments were provided.</li> <li>Clearly defined responsibilities for the operator and</li> </ul>                                                                                                                                                                                                   | 2 | 1 | L | Write here your project engineer/<br>QHSE Engineer |



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|   |                   |                                                                                                  |  | and other physical injuries                                                                                                                                  |   |   |   | [Client/contractor/sub-contractor ] (in event of an emergency)<br><ul style="list-style-type: none"> <li>Appropriate public liability insurance in place (min £5m public liability). The insurer contacted us to ensure adequate coverage and that any special conditions are met.</li> </ul>                                                                                                                                                |   |   |   |                                                    |
| 4 | Fireworks Display | Adverse weather                                                                                  |  | <ul style="list-style-type: none"> <li>Property damage/fire</li> <li>Burns</li> <li>Cuts/abrasions, muscular-skeletal and other physical injuries</li> </ul> | 4 | 2 | H | <ul style="list-style-type: none"> <li>Test launch of small fireworks to gauge the effect</li> <li>Increase separation from fireworks and bonfires and relocate safety lines/barriers</li> <li>If safe separation cannot be ensured delay/cancel the display</li> </ul>                                                                                                                                                                      | 3 | 1 | L |                                                    |
| 5 | Fireworks Display | <ul style="list-style-type: none"> <li>Fire Ignition of premises</li> <li>Small fires</li> </ul> |  | <ul style="list-style-type: none"> <li>Property damage/fire</li> <li>Burns</li> </ul>                                                                        | 3 | 3 | H | <ul style="list-style-type: none"> <li>Adequate separation from buildings (see above)</li> <li>Adequate water, sand buckets etc.</li> <li>Installed and positioned in proper places to allow quick access</li> <li>Review main fire risk assessment</li> <li>Agreed emergency procedure in place and adequate marshals to control the crowd (see below)</li> <li>The local authority, Police and Fire Brigade have been informed.</li> </ul> | 2 | 1 | L | Write here your project engineer/<br>QHSE Engineer |



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|   |                   |                                                                                                                                                       |  |                                                                                                                                                                                               |   |   |   | <ul style="list-style-type: none"> <li>All staff and volunteers were advised of emergency procedures</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |                                                 |
| 6 | Fireworks Display | Crowd Control/Overcrowding<br>Crush injuries, panic, distress<br>Separation of children from parents<br>Inadequate space/exits<br>Blocked exit routes |  | <ul style="list-style-type: none"> <li>Fire evacuation</li> <li>Hindered/unsafe access/egress</li> <li>Cuts/abrasions, muscular-skeletal injuries</li> <li>Slips, trips, and falls</li> </ul> | 2 | 5 | H | <ul style="list-style-type: none"> <li>The maximum number of attendees established limit ticket sales.</li> <li>Designated entrance and exit points.</li> <li>Appropriate numbers of staff / Physical Therapist Assistants (PTA) supervising</li> <li>Marshals are in place and responsible for crowd control. (Identifiable &amp; recognized by wearing fluorescent jackets)</li> <li>Agreed emergency procedures in place.</li> <li>Entrances and exits are signposted, well-lit, and kept free from obstructions.</li> <li>PA/loudspeaker/megaphone used to communicate with the crowd.</li> <li>Walkie-talkies are used by marshals and organizers.</li> <li>Spectators will not be allowed into the display area and signage to this effect is in place.</li> </ul> | 2 | 1 | L | Write here your project engineer/ QHSE Engineer |



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|   |                   |                                                       |  |                                                  |   |   |   | <ul style="list-style-type: none"> <li>Search for proper advice from the police, if required or necessary, for crowd control.</li> <li>Barriers and adequate supervision to prevent unauthorized use and control access and egress</li> </ul>                                                   |   |   |   |                                                 |
| 7 | Fireworks Display | Insufficient and/or unsuitable first aid cover        |  | Accident/injury, delayed assistance in emergency | 4 | 2 | H | <ul style="list-style-type: none"> <li>First aid equipment is on-site and close to use.</li> <li>Designated qualified first aiders are available.</li> <li>Telephones available in [Client/contractor/sub-contractor /site/facility] / mobile phones available</li> </ul>                       | 2 | 1 | L | Write here your project engineer/ QHSE Engineer |
| 8 | Fireworks Display | Surrounding areas /Neighbors                          |  |                                                  | 3 | 3 | H | <ul style="list-style-type: none"> <li>The neighbours have been informed of the proposed display by a letter from the head teacher/governors</li> </ul>                                                                                                                                         | 2 | 1 | L |                                                 |
| 9 | Fireworks Display | Security<br>Unauthorized access<br>Inadvertent access |  | Malicious damage / theft from school             | 2 | 4 | H | <ul style="list-style-type: none"> <li>Areas other than those needed for the event are accessible only to authorized persons.</li> <li>Buildings, apart from essential areas locked. This is checked before and after the display.</li> <li>Clearly defined designated access routes</li> </ul> | 2 | 1 | L |                                                 |

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|    |                   |                                                                     |  |                                                                                                                       |   |   |   | <ul style="list-style-type: none"> <li>• Apply proper protection systems (LOCKS) for the facility or building in areas that are not in use.</li> <li>• Install proper poster/ warning signs and or mark areas as out of restraint.</li> <li>• Adequate supervision</li> </ul>                                                                                                                                                                                         |   |   |   |                                                 |
| 10 | Fireworks Display | Inadequate welfare facilities                                       |  |                                                                                                                       | 2 | 4 | H | <ul style="list-style-type: none"> <li>• [facility/site's] toilets are used.</li> <li>• Adequate supervision</li> </ul>                                                                                                                                                                                                                                                                                                                                               | 1 | 3 | L | Write here your project engineer/ QHSE Engineer |
| 11 | Fireworks Display | Vehicular access<br>Ineffective pedestrian-vehicle segregation      |  | Cuts/abrasions, muscular-skeletal and other physical injuries<br>Broken bones<br>Significant head / multiple injuries | 2 | 4 | H | <ul style="list-style-type: none"> <li>• Restricted access, visitors advised accordingly. (Gates shut/ managed by staff)</li> <li>• Vehicle movements restricted</li> <li>• Pedestrian walkways maintained</li> <li>• Clear route maintained for emergency services</li> <li>• Assigned vehicle/car park well away from the display area and dropping zone.</li> <li>• Vehicle/car park signposted and attendants or contract security personnel in place.</li> </ul> | 2 | 1 | L | Write here your project engineer/ QHSE Engineer |
| 12 | Fireworks Display | the surface of the field / internal areas<br>Slips, Trips and Falls |  | Cuts/abrasions, muscular-skeletal and other physical injuries                                                         | 2 | 4 | M | <ul style="list-style-type: none"> <li>• Make sure that all proper and sufficient arrangements are in place for clearing up and safely disposing of any litter left after</li> </ul>                                                                                                                                                                                                                                                                                  | 2 | 1 | L | Write here your project engineer/ QHSE Engineer |



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|                   |                                                                                                                                          |  |  |                                                                                           |   |   |   | the event fire displaying event.<br>Make proper housekeeping and disposal of the litter or left out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |                                                 |
|                   |                                                                                                                                          |  |  |                                                                                           |   |   |   | <ul style="list-style-type: none"> <li>Regular premises inspections.</li> <li>Adequate external lighting is available</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                                 |
| Fireworks Display | Supplying Food and Drink<br>Poor standards of hygiene<br>Physical contamination<br>Incorrect storage of food<br>Poor temperature control |  |  | Salmonella<br>Listeria<br>Allergies<br>Anaphylaxis<br>Scalds from urns and kettles drinks | 2 | 4 | M | <p>Follow the advice given in 'Food Hygiene advice for teachers, parents, pupils, and classroom assistants'</p> <p><b>Personal hygiene</b></p> <ul style="list-style-type: none"> <li>Prohibition or Exclusion for food handlers or food caretakers following illness (approx. 48hrs).</li> <li>Tie back long hair.</li> <li>Make sure that all the food handler Staff have sanitized their hands properly before handling or serving food and after visits to the toilet/washrooms etc.</li> <li>Make sure that enough warm water, soap, and towels (disposable) are easily available.</li> <li>Cuts etc. are covered with waterproof adhesive dressings</li> </ul> <p><b>Transport / Storage</b></p> <ul style="list-style-type: none"> <li>Food that requires refrigeration must not be supplied unless</li> </ul> |  |  | Write here your project engineer/ QHSE Engineer |



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adequate facilities for taking it to [site/facility] and keeping it in a chilled state exist.

- Don't store buffets, sandwich fillings etc. in the fridge for the shortest time.
- Keep food covered wherever possible outdoors.
- Parents are encouraged to transport food in sealable containers / covered.
- Food from reputable suppliers
- The [site/facility administration] must not accept food from anywhere they are suspicious about the hygiene in preparation or storage before arrival at the [site/facility] school

#### Food Handling

- Minimize handling of ready-to-eat foods, use tools (cutlery, tongs, scoop etc.) where possible to handle food rather than hands.
- High-risk/raw foods are always kept apart
- Limit preparation of food in advance if displayed at ambient temperatures.



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- Make sure that cheesecakes and any cakes or desserts containing cream are out of the fridge for the shortest time possible.

- Ensure food is appropriately signed to prevent allergies and anaphylaxis
- Ensure urns and kettles are sited on firm-level surfaces, not overfilled.

#### BBQ

- Frozen food properly thawed before cooking
- Meat is kept in a cool box/fridge until needed
- Small portions cooked, evenly / thoroughly
- Access to hand washing facilities / antiseptic wipes
- Keep cooked food separate from raw meat – use separate utensils

|                                                                                   |                        |                                    |            |                             |
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## OSH Risk Matrix

| Probability                 | Consequence       |                                                         |              |           |                  |
|-----------------------------|-------------------|---------------------------------------------------------|--------------|-----------|------------------|
|                             | Insignificant (1) | Minor (2)                                               | Moderate (3) | Major (4) | Catastrophic (5) |
| Rare (1)                    | 1                 | 2                                                       | 3            | 4         | 5                |
| Possible (2)                | 2                 | 4                                                       | 6            | 8         | 10               |
| Likely (3)                  | 3                 | 6                                                       | 9            | 12        | 15               |
| Often (4)                   | 4                 | 8                                                       | 12           | 16        | 20               |
| Frequent/Almost Certain (5) | 5                 | 10                                                      | 15           | 20        | 25               |
| 15 - 25                     | Extreme Risk      | Activity or Industry Should Not Proceed in Current Form |              |           |                  |

|                                                                                   |                        |                                    |            |                             |
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| 8 - 12 | High Risk     | Activity or Industry should be modified to include remedial planning and action and be subject to detailed OSH Assessment |
| 4 - 6  | Moderate Risk | Activity or industry can operate subject to management & Modification                                                     |
| 1 - 3  | Low Risk      | No Action is Required Unless Escalation of Risk is Possible                                                               |