



## British Schools Karting Championship 2017 Risk Assessment

### Overview

This Risk Assessment for the British School Karting Championship is a championship wide risk assessment that covers the risks involved in arrive-and-drive karting within the championship and the controls in place to minimise those risks. This risk assessment is applicable to all circuits hosting the British Schools Karting Championship in 2017 covering karts of all engine size and type.

The championship has been carefully designed to ensure that the risks involved in kart racing are sensibly minimized where possible especially by the insistence that all drivers participate in a championship practice session before being allowed to race in any race event.

It is imperative to bear in mind that accidents can happen in all forms of competitive sport and karting is no different. BARC Ltd and the circuits hosting the British Schools Karting Championship have taken all sensible precautions to minimize the risk of accidents and / or injury to competitors but accidents cannot be ruled out. **Competitors therefore take part in the championship at their own risk.**

It is also therefore essential that schools ensure that permission to compete in the championship is sought from all the drivers' parents / guardians, and that they are fully aware of the risks involved in kart racing on offer in British Schools Karting Championship before giving permission to race.

BARC Ltd believe that arrive-and- drive karting on offer in the British Schools Karting Championship is one of the safest, motivating and exciting forms of sport available to young people today, regarding the sport as being safer than rugby, hockey, sailing, skiing, snowboarding and many other sports available to schools across the country.

Date undertaken: 2<sup>nd</sup> September 2016

RISK	HAZARD OUTCOME	CONTROLS IN PLACE TO MINIMIZE RISK
Exposure to harmful exhaust emissions	Injury / illness	<ul style="list-style-type: none"> <li>Extraction system in place at all tracks and operational at all events</li> <li>Regular Carbon Monoxide testing</li> </ul>
Refuelling of karts	Fire leading to injury	<ul style="list-style-type: none"> <li>All staff trained in the refuelling of karts</li> <li>No driver should be in or near the karts during refuelling</li> <li>Fire fighting equipment nearby in case of fire</li> <li>Karts must not be over filled</li> <li>Fuel caps must be securely fastened before restarting kart</li> <li>Smoking strictly prohibited in the building</li> </ul>
Incorrect use of fire exists	Serious injury / death	<ul style="list-style-type: none"> <li>All fire exits marked in accordance with H &amp; S regulations 1996</li> </ul>
Faulty fire extinguishers	Serious injury / death	<ul style="list-style-type: none"> <li>All fire extinguishers serviced annually</li> </ul>

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RISK	HAZARD OUTCOME	CONTROLS IN PLACE TO MINIMIZE RISK
Incorrect operation of fire extinguishers	Serious injury / death	<ul style="list-style-type: none"> <li>Staff trained in correct usage of fire extinguishers</li> </ul>
Flammable gases and liquids	Fire leading to injury	<ul style="list-style-type: none"> <li>All flammable liquids and gases stored in flameproof containers and stored in a secure location</li> <li>Staff trained in storage of flammable liquids and gases</li> </ul>
Wet floors	Slipping leading to injury	<ul style="list-style-type: none"> <li>Cleaning completed prior to customer access</li> <li>Slippery floor signs on display where needed</li> </ul>
Track unsafe	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>Track regularly inspected to ensure free of obstructions and that safety barriers and / or tyre walls are correctly positioned and fit for purpose before track use</li> <li>Safety barriers and / or tyre wall correctly positioned after impact</li> <li>Any problems reported to circuit manager</li> </ul>
Poor visibility due to inappropriate lighting levels	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>Daily circuit inspection to monitor for broken light bulbs</li> </ul>
Hand trapped in kart chain	Injury to hand	<ul style="list-style-type: none"> <li>Permanent chain guard / axle covers fitted on all karts to prevent access</li> </ul>
Customers walking on to track during race or practice session	Collision between kart and customer leading to injuries	<ul style="list-style-type: none"> <li>Customers forbidden to walk on to track and reminded during safety briefing</li> <li>Caution signs displayed clearly around track barrier</li> </ul>
Risk of being knocked over by mobile karts in pit lane	Collision between kart and customer leading to injuries	<ul style="list-style-type: none"> <li>Restrict access to pit lane with permanent barriers and discourage pit lane entry unless absolutely necessary</li> <li>Advise of danger during briefing</li> <li>Advise drivers that people may be present in the pit lane and that they are to exercise extra caution and reduce speed in pit lane</li> <li>Drivers who drive fast in the pit lane will be warned and / or disqualified upon discretion of the Clerk of the Course</li> </ul>
Noise levels	Damage to hearing	<ul style="list-style-type: none"> <li>Noise levels controlled to a practical level</li> <li>Ear plugs available on request</li> </ul>
Drivers with existing health conditions causing collisions	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>Drivers / member of school staff / guardian must declare that the driver is physically and mentally fit to participate in the events</li> <li>Drivers should not take part if they have an existing health condition that might be aggravated by significant physical demands of kart racing.</li> <li>Warning signs informing of the physical and mental demands of kart racing</li> </ul>
Drivers under the influence of drink and / or drugs	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>All drivers must sign a disclaimer clearly stating they are not under the influence of alcohol or drugs</li> <li>Anyone deemed under the influence of alcohol or drugs will not be allowed to participate</li> </ul>

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RISK	HAZARD OUTCOME	CONTROLS IN PLACE TO MINIMIZE RISK
Fitness levels	Mental fatigue leading to potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>▪ Racing and practice limited to 10 minute sessions at any one time</li> <li>▪ Drivers encouraged on the championship website to get fit before racing</li> </ul>
Hot kart exhausts	Injury from burns to hands	<ul style="list-style-type: none"> <li>▪ Customers must wear gloves when getting in to and out of the karts</li> <li>▪ Advise customers during safety briefing not to touch the exhaust when getting in to and out of the karts</li> <li>▪ Full length legs and sleeves on drivers' suits</li> </ul>
Collisions on track with circuit barrier or other karts	Potential injury	<ul style="list-style-type: none"> <li>▪ All customers must wear the following safety clothing:               <ul style="list-style-type: none"> <li>○ Safety helmet</li> <li>○ Protective race suit</li> <li>○ Protective race gloves</li> </ul> </li> <li>▪ Customers forbidden to get in to kart if not wearing correct safety clothing</li> <li>▪ Staff trained in fitting the correct size safety helmet for each individual</li> <li>▪ Staff check that safety helmet is securely fastened before allowing each driver in the karts</li> </ul>
Driving for prolonged periods of time	Blisters and minor skin abrasions	<ul style="list-style-type: none"> <li>▪ Driving limited to just two 10 minute practice or race sessions at a championship event</li> <li>▪ Drivers wear protective suit and gloves at all times when driving the karts</li> </ul>
Driver being thrown out of kart due to collision with track barrier and / or other kart	Potential injury	<ul style="list-style-type: none"> <li>▪ Industry wide policy not to fit seat belts as it is believed to be safer to be thrown clear of a kart than it is to be trapped underneath a flipped kart. Karts are considered by the Health &amp; Safety executive as the same as bikes in this respect.</li> <li>▪ Low and central centre of gravity relative to track-width of kart minimizes chance of flipping kart</li> </ul>
Aggressive / dangerous driving	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>▪ Member of staff from school / guardian present at all events should encourage responsible behaviour</li> <li>▪ Clerk of the Course continually monitoring driving standards and will pull a driver off from the circuit if deemed a danger to themselves or others on the track</li> <li>▪ Customers reminded that karting is a non contact sport</li> </ul>
Driver unfamiliarity with circuit layout	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>▪ Championship practice session mandatory to ensure that all competitors are familiar with the track layout before racing in the championship race events</li> <li>▪ Championship practice session split in to two 10 minute sessions per driver to give the chance for the driver to reflect on track layout, racing lines, braking and turn in points between sessions</li> <li>▪ Circuit layout, track guide and video available for inspection on championship website prior to event</li> </ul>

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RISK	HAZARD OUTCOME	CONTROLS IN PLACE TO MINIMIZE RISK
Driver unfamiliarity with driving karts	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>▪ Championship practice session mandatory to ensure that all competitors are familiar with driving karts before racing in the championship race events</li> <li>▪ Championship practice session split in to two 10 minute practice sessions per driver to give the chance for the driver to reflect on driving skills between sessions</li> <li>▪ Safety briefing informing customers:               <ul style="list-style-type: none"> <li>○ How to handle karts to a basic level. I.e. Brake &amp; accelerator pedals, steering wheel</li> <li>○ That the brakes act on rear wheels only so potential for spinning under braking</li> <li>○ That the karts are very responsive to changes in steering input</li> <li>○ That they should drive within their own limits at all times</li> </ul> </li> </ul>
Collisions with stationery karts on track or marshals to attending an accident on the circuit	Potential injury	<ul style="list-style-type: none"> <li>▪ Yellow flag system in place to warn other drivers of on-track obstruction / collision up ahead, drivers told to slow down</li> <li>▪ Particular emphasis paid to the purpose and the protocols of the yellow flag system during the safety briefing</li> <li>▪ Drivers disqualified for not obeying yellow flags</li> </ul>
Inadequate instruction of competitors arriving late	Potential on-track accident leading to injury	<ul style="list-style-type: none"> <li>▪ No driver will be allowed to compete who misses the safety briefing</li> </ul>

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