

Burghfield Box-kart Bash 2019

Our Annual Box-kart Derby

INFORMATION PACK

After the amazing success of the 2017 and 2018 events, where over 4,000 people watched fearless drivers in amazing creations hurtle down our 850m course; the 3rd Burghfield Box-kart Bash will take place on the 23rd June 2019 in Burghfield Common.

It is a fun event run by The Burghfield Santas to raise money for charity, traditionally the Thames Valley Air Ambulance, but for this event other charities will benefit too, with prize money being awarded to the nominated organizations or charities of the prize winners. The course will run from Hermits Hill, near the Guide Dogs for the Blind, and run to the Hatch. Up to thirty karts will compete for a variety of prizes.

Themed karts will be encouraged since they provide great viewing for the spectators.

Prize Categories

- Spirit of the event - This prize will be awarded by the organizers to the team which in their opinion best reflects the fun and sporting nature of the event
- Fastest single time on the day 1st 2nd 3rd
- Best engineered kart 1st 2nd 3rd
- Best novelty kart 1st 2nd 3rd
- Most money raised!

No team can win more than one prize (even though they may deserve it) with the exception of any additional prize resulting from the timed trial.

As this is primarily a charity event, teams will only be eligible for prizes upon reaching their fundraising target (£200 minimum for a charity of your choice)

How to enter

1. Read this Information Pack
2. Complete the entry form on boxkart.org.uk
3. Submit the entry fee: £50 for individuals or £100 for corporate entries*

**Get a company to sponsor your kart. For £100 corporate entries can have their own banner displayed along the Course and be mentioned by the event commentator throughout the afternoon. It is also a fun day for your supporters. Entering a kart can also be a good team building exercise and you can even raise money by selling space on your kart or helmet.*

4. Enjoy the day!

Please Note: Team numbers are limited to 30, on a first come first served basis.

Raising Money

The Box-kart Bash is intended to be a family fun day for the benefit of local community. It is held before the summer holidays so that it gives families and individuals a project throughout the spring and longer days, and allows schools and other groups to work on their karts before the summer holidays.

The popularity and fun of the event means that it's a great platform to raise money for good causes. This year we have a target of £20,000 - Remember it's all done for charity. All of us involved in running it are volunteers.

You can help to reach this target in three easy ways:

Sponsorship

We ask that each team set themselves a minimum target for sponsorship of £200.

You will be sent a sponsorship form when your entry application is accepted and extra copies can be downloaded from this web site, we will also provide an online collection page where you can add your own teams.

Programmes

Sell or buy a programme page - An ad costs only £100 per page (£55 half page). Thousands will see it!

Corporate/Business support

Find a kart sponsor – Get a company to sponsor your kart. For £100 corporate entries can have their own banner displayed along the Course and be mentioned by the event commentator throughout the afternoon. It is also a fun day for your supporters. Entering a kart can also be a good team building exercise and you can even raise money by selling space on your kart or helmet.

Rules and Regulations

Introduction

These Rules and Regulations apply to all entries; they have been designed for your safety and the safety of others around you. They enable us to run the event effectively for the maximum benefit of all, so please ensure that you read them carefully and comply with the details.

If you have any comments or concerns please contact us on Admin@BurghfieldSantas.org.uk

The Course

The course runs from the near the Guide dogs for the blind Association car park on Hillfields, Burghfield Common, to the Hatch - a length of 850m and a drop of 40m. The bends near the Guide Dogs HQ and the junction for James Lane are quite sharp, the former having an adverse camber, and the gradient before James Lane is 11%. Some karts can be expected to reach high speeds, safety is paramount at this event and we expect you to be mindful of your safety, and that of the crowd as you undertake this challenging course.

The kicker this year, will be further up the course near the Guide Dogs. Please note, the Kicker is designed to flick the back of the Kart up, and therefore you should consider this on the approach, and with your Kart design

There will be a narrow chicane near the Guide Dogs HQ, it will be heavy and cause damage to karts if struck. It is designed to prevent karts from gaining too much speed before the steepest section of the course, and to test the skills of the driver.

At the Rose Lawn, there will be a stepper – this will be a series of small steps, it is designed to test the suspension and construction of your Kart

The final test will be a water based obstacle to negotiate between the Rose Lawn and the finish line – for those going slowly – you WILL get wet

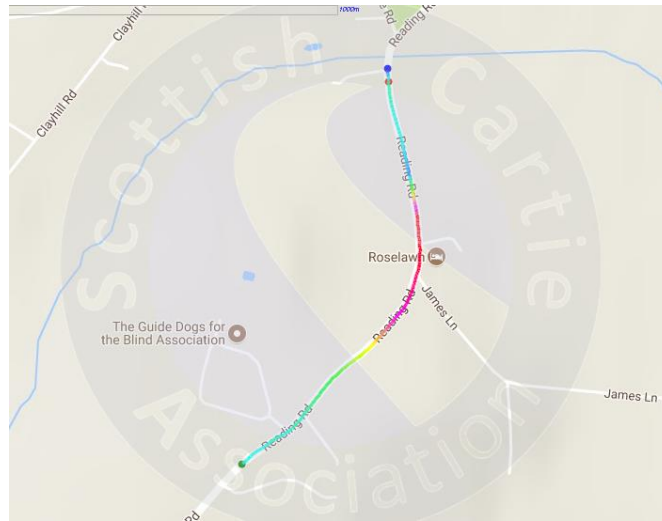


Figure 1 - Course Route, Reading Road, Burghfield Common

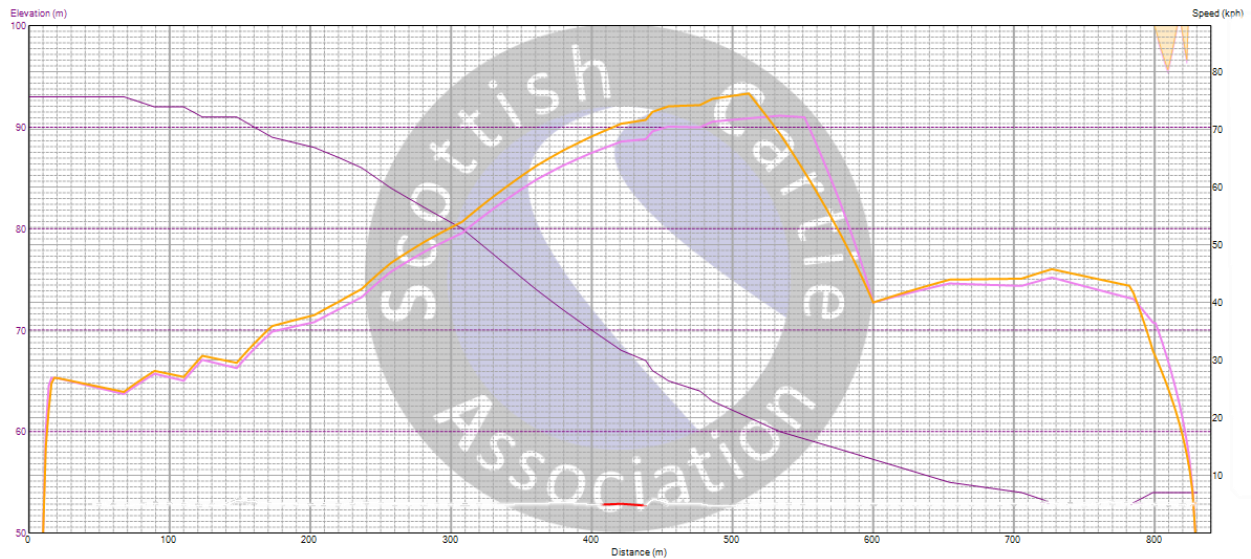


Figure 2 - Route Profile - hill against projected speed (includes obstacles)

Your kart must have **efficient** brakes and excessive ballast must not be carried. As the design and weight of karts will be highly variable, what is deemed as excessive ballast will be determined by our scrutineer (please refer to Technical Design Criteria note 4). You must therefore agree with our chief kart scrutineer the amount of ballast allowable for your kart before the final build is submitted for scrutineering.

Our decision will be final.

The Rules

Every team must read and accept the Rules in full. Applications must be made using the entry form.

1. A team will consist of a maximum of four persons; up to two in the kart and two pushers.
2. Pushing, by up to two team members, will be allowed from the start to a line approximately 5m from the start. Any infringement will preclude the team from the fastest time awards.
3. Participants must be over 14 years old and every team member must sign an indemnity form. Anyone under 18 years old must have signed consent from a parent.
4. **All karts must attend for scrutineering and photography two weeks prior to the event.** This will be at 10.00 a.m. on Saturday June 8th at the Guide Dogs for the Blind Association HQ, Burghfield. Any actions to make karts fit for racing will be listed. Karts deemed not safe on race day final checks will not be allowed to race.
5. The Organisers reserve the right to refuse entry by any team, at any time, and for any reason.
6. No head first driving. Once seated, drivers and passenger must remain seated.
7. Numbers provided at registration must be prominently displayed on the front of each kart.
8. Teams with a good idea for a novelty kart may apply for exemptions to the rules and the design criteria.
9. The officials' time is final, even if it's incorrect.
10. There are expected to be two timed runs down the course. The second run may be limited to the fastest karts, depending on timings of the day.
11. Run One: Show the hill who is boss!
12. Run Two: The finals for the fastest karts.
13. After Run One all karts will be towed back up Hermits Hill from the Hatch to the start line. Once Karts have finished Run One race marshals will direct them to the tow hitch-up area. The tow will commence once the last kart has completed its run. It is anticipated that there will be up to 5 towing vehicles and karts will be towed in groups of up to 6.
14. After the Gravity Grand Prix all entrants should remain for prize giving on the Hatch.
15. All Kart occupants MUST wear helmets
16. Every member of the team MUST walk the course during the driver's briefing. Non-attendance will see the disqualification of the Kart from the event
17. It is recommended that drivers and passengers should wear appropriate gloves. Clothing must be capable of withstanding a spill on tarmac or concrete. No bare limbs please. Be reminded that it is your body travelling at ~30mph - potential contact with tarmac and immovable objects will probably hurt and you may wish to consider this.

Technical Design Criteria

1. All karts must be constructed with pedestrian and spectator safety in mind. Sharp edges will not be permitted.
2. Karts must not have any protuberance that could stick into the ground after the kicker, that would cause the kart to flip
3. No glass or other materials that could shatter or cause injuries to drivers, passengers or spectators in the event of a crash may be used in the construction of the kart.
4. Maximum width 1.2m measured from outside to outside.
5. The maximum unladen weight of the kart should not exceed 100KG.
6. Karts must be fitted with strong 15mm (minimum) eyelets capable of 1500 N front & back to accept the tow ropes provided by the Santas. The chassis needs to be able to take this force between eyelets, as the total weight being pulled by the kart may reach 1.5 tonnes on towing. It is anticipated that karts will be towed in groups of up to 6 in a daisy chain formation.
7. No protuberances outside these dimensions will be allowed.
8. Karts must have a minimum of three wheels. All wheels should be in road contact during normal running.

9. Good brakes are essential and will be checked. Wheel braking must operate on at least two wheels on the same axle and be effective. The brakes must operate on the kart itself and not damage the road surface.
10. Seats must be securely bolted to the kart.
11. Karts must be designed to carry no more than two persons, in a feet first direction.
12. Any steering column, brake lever or other protrusion must be designed and fitted such that the risk of injuries is minimised and suitably mounted to reduce play while traveling.
13. Any electrical systems to power lights, or other special effects must be fitted with an identifiable external isolator switch.
14. Pyrotechnics, such as smoke must be non-flammable and not be possible to act as a source of ignition should it come into contact with dry straw or any other combustible material.
15. Bodywork and controls must not impede the driver/passengers in exiting the vehicle unaided.
16. Any doors or hatches required for access must be readily operated from both inside and outside the vehicle without the use of tools.
17. Steering must not have excessive free play or any characteristic tending to promote instability.
18. Gravity propulsion only – i.e. no motors, no pedals, no stored potential energy nor excessive ballast.
19. Seatbelts are not mandatory, but if seat belts are used they must be of a minimum four point fixing and only on karts with a roll-bar.
20. Secondary Locking methods of all Wheels and critical systems should be used unless justification for omission can be demonstrated to scrutineers eg. cone and nut bicycle wheel, or split pin and nut.
21. Wheel diameter is not dictated but side-flex during high speed cornering is a known issue with larger wheels and this must be demonstrated to scrutineers that this has been considered in the design.

Important

Safety Info and Conduct on the Day

The purpose of the event is to have fun, but the safety of the team, supporters and spectators is paramount throughout the day and, accordingly, the organizers reserve the right to amend these rules or go above and beyond their guidance. With this in mind if in the opinion of the race officials, a competitor's ability to be safely in control that has been compromised by alcohol, drugs, illness, injury, or emotional stress, that competitor will not be allowed to continue the event.

The Event

1. Registration will commence at 10:00 am on the day of the event. Racing is expected to start at noon and finish by 4pm to allow the road to be returned to functional public use by 5pm.
 2. All drivers and passengers must familiarize themselves with the course.
 3. All drivers and passengers must attend the Drivers' Briefing at 11:30am. Muster will be at the Guide Dogs location.
 4. All members of the team will be issued a wristband when they sign the required indemnity. Only entrants wearing wrist bands will be allowed on the course or to drive the karts during any part of the event.
 5. After crossing the finishing line drivers will need to apply their brakes and quickly depart from the track under the Marshal's instructions. An uphill towing service will tow the karts uphill. Please make sure that your kart is strong enough to tow 6 other fully laden (with drivers) karts.
- No expressed or implied warranty of safety shall result from the publication of, or compliance with, these rules and / or regulations.
 - This publication is in no way a guarantee against injury.