

2010 Otago Southland Grass Kart Challenge Safety Action Plan & Rules

Warning

**Grass Kart Racing can be dangerous. Despite the best efforts of organisers to take reasonable precautions, accidents can happen and in respect to these you are present at your own risk.
Obey all signs and follow the instructions of officials.**

The following notes, rules and safety requirements can provide part of each school's Outdoor Education Safety Plan.

1. GENERAL

Convenor – Glenys McKenzie (Southern Group Training Trust)

The Convenor shall be responsible for the organisation of the meeting. The Convenor will appoint the Scrutineers, Event Managers, Marshals and the Disputes Committee.

Scrutineers – Russell Jenkins (SIT) and Ivan Mockford (Otago Grass Kart Club)

Scrutineers are entrusted with all checking relating to the mechanical components of the karts. These checks will be carried out before the event and at any other time where the safety of a kart is in question e.g. after an accident.

Event Managers

Each event will have a designated manager. Their principal duties shall be:

- Ensure each event is run in a safe manner
- Allocate the duties of each Marshall
- To record the result of each event
- To report the result of each event to the Convenor

The event managers are:

- Pit Area Manager: Warren Ruwhiu, Southland Institute of Technology
- Slalom Course: Rex Turner, Otago Polytechnic
- Sprint Course: Steve Hayward, Southern Group Training Trust
- Relay Course: Paul Burrows: James Hargest High School

Marshals

Marshals will carry out the duties assigned to them by the Event Manager

Disputes

If anything is in dispute, the Disputes Committee's decision is final. The dispute committee comprises:

- Mike Grumball
- Ivan Mockford
- Mark Jolly

Venue – see map

- The pit area is out-of-bounds to spectators.
- Spectators are to view the Grass Kart Challenge from the allocated area only.
- Areas with controlled access will be defined by barriers e.g. cones, stanchions and tape.

Pit Area – Pink Box on map

Each team may set up a tent or gazebo (surface is grass) in their allocated Pit Area. Karts are to be *pushed*, not driven, at all times within the pit area.

All competitors and crew must take into account the potential dangers in the pit area. Extreme care must be taken at all times to protect eyes, hands, hair, etc through the use of appropriate equipment and actions.

Scrutineering

Scrutineering will take place on Friday afternoon for both karts and helmets. Teams are to leave a contact cell phone number in case scrutineering identifies significant items requiring rectification that are anticipated to require more time to remedy than has been allocated in the overall programme.

Teams will have the opportunity to rectify minor deficiencies on Saturday from 07:00 am.

Once the kart has passed scrutineering no other work (such as repairs) is to be undertaken on the kart without the express permission of the scrutineers, who will re-inspect the kart on completion on repairs.

Fuel

91 Octane pump petrol only is to be used and no more than 5 litres per team is to be stored in the pit area in approved sealed fuel containers. The mixing of fuels is prohibited. Refuelling may only take place in the pits. Karts must not be running when refuelling. Refuelling a kart in any other area is strictly prohibited.

Smoking

The 2010 Otago Southland Grass Kart Challenge is a smoke free event.

Kill Switch

Engine kill switches must be accessible and clearly seen, must be functional and work. They must be mounted on steering column or on steering wheel if not readily accessible on engine from driver's position.

Fire Extinguishers

Each team must supply a suitable fire extinguisher – Class B - for their pit area. In addition AFFF fire extinguishers will be placed at various points on the course; these extinguishers are only to be used by suitably trained personnel.

Safety Clothing

Whilst competing in each event the following must be worn:

- Full length and long sleeved cotton (or other fire retardant material) overalls, adequately secured at the neck, wrists and ankles.
- Suitable footwear of enclosed type giving full foot protection.
- Gloves of suitable material are recommended, but not compulsory.
- Approved motorcycle type Helmet fitted with visor or goggles (not sunglasses).

Any person within the event confines, including the pit area, must wear footwear of enclosed type giving full foot protection.

Long Hair

At all times when operating a kart, long hair must be retained within protective apparel

- Drivers may use a hair net, hood, balaclava or other suitable device to retain hair.
- Extremely long hair must be retained as above and not tucked under the helmet.

2. FRIDAY 15 October 2010

Arrival

Teams are NOT to arrive before 3:30pm in order to allow Aurora College students to complete classes and exit the College grounds.

Venue

Aurora College (Tramway Road entrance), Invercargill (Map to be included)

Time	Event	Venue	Comment
3:30 - 4:30 pm	Teams arrive, register and set up	MAC Centre Gym	<ul style="list-style-type: none"> On arrival teams will be given information packs. Presentations compatible with MS PowerPoint 2003 to be handed in on clearly labelled CD/DVD or memory stick. A hard copy of the Record Keeping Logbooks to be handed in at registration, the copy will not be returned. Teams to have karts and displays set up by 4:30pm. Karts to be on robust, lockable stands. with suitable soft feet to prevent marking of floor. Drip trays must be supplied by teams with an underlying tarpaulin (ex Warehouse min 8 x 6). Secure trailer storage is available adjacent to MAC Centre in lockable tennis court area.
4:30 – 5:00 pm	Team Photos	MAC Centre	<ul style="list-style-type: none"> Team and kart display combined with Tutor/Teacher
4:30 – 5:00 pm	People's Choice	MAC Centre Gym	<ul style="list-style-type: none"> Teams to vote for karts but must not vote for own team. One vote per team.
5:00 – On Completion	Kart Scrutineering and judging	MAC Centre Gym	<ul style="list-style-type: none"> Kart Safety Inspection. Appearance Category marking. Construction Category marking.
5:00 – 5:15 pm	Welcome	Aurora Auditorium Block B	<ul style="list-style-type: none"> All Grass Kart team members and school staff to be present.
5:15 – 7:00 pm	Team presentations 5 mins per team.	Aurora Auditorium Block B	<ul style="list-style-type: none"> All Grass Kart team members and school staff to be present. Presentations to be compatible with MS PowerPoint 2003. Presentations to be saved to clearly labelled CD/DVD or memory stick and have been handed in at registration.
7:00 pm (Approx)	Teams Depart		<ul style="list-style-type: none"> Evening meal and accommodation team's individual responsibility. Karts remain in Training Centre overnight.

3. SATURDAY 16 October 2010

Venue

Aurora College (Tramway Road entrance), Invercargill.

Time	Event	Venue	Comment
7.00 – 8.00 am	Scrutineering repairs as required (facility available all day as needed)	Aurora College Workshop	<ul style="list-style-type: none"> • Spare parts available at workshop (Small parts, nuts etc) • Bring your own tools • Welding equipment provided
7.30 – 8.00 am	Teams set up in pit area	Pit Area	<ul style="list-style-type: none"> • Each team to set up in their allocated site.
7.30 – 8.30 am	Teams continue to rectify any scrutineering faults	Aurora College Workshop	<ul style="list-style-type: none"> • Karts will not be released from ISTC until cleared from scrutineering.
8.00 – 8.15 am	Event briefing	Pit Area	<ul style="list-style-type: none"> • All Grass Kart team leaders and school staff to be present. This will cover <ul style="list-style-type: none"> ◦ Event Format ◦ Team groupings and sequence ◦ Safety
9:30 – 11.30 am	Public Karting	Relay Track	<ul style="list-style-type: none"> • Karts available to public to drive around the relay course for a small fee TBA
8.15 – 9.45 am	Event round robin #1	Various	<ul style="list-style-type: none"> • First group undertakes Slalom whilst second group undertakes Sprint course
10:15 – 10.30 am	Changeover		
9.45 am – 11.15	Event round robin #2	Various	<ul style="list-style-type: none"> • First group undertakes sprint whilst second group undertakes slalom
11.30 – noon	Celebrity Racing Lunch	Relay Track	<ul style="list-style-type: none"> • Lunch will be available for purchase on site on the day
12.00 – 12.15 pm	Relay Race briefing	Relay start line	<ul style="list-style-type: none"> • All Grass Kart team leaders and school staff to be present. This will cover <ul style="list-style-type: none"> ◦ Event Format ◦ Team groupings and sequence ◦ Safety
12.15 – 4:00 pm	Relay Race	Various	
4:00 – 4:30 pm	Pack Up	Various	<ul style="list-style-type: none"> • Teams and support crew to assist
4:30 – 5:30 pm	Prize Giving/Photos	Aurora Auditorium Block B	<ul style="list-style-type: none"> • All Grass Kart team members and school staff to be present.
5:30 pm	Teams Depart		

Events

The following rules must be observed during the specific events. The convenor has the authority to modify or amend any rule at any time as required to maintain the safe conduct of the event.

All events will entail karts competing against the clock, with up to approximately four karts on a track at a time.

Behaviour

A good standard of behaviour is expected from all participants. Failure to comply may result in ejection from the event.

Driving Standards

A kart must be driven at all times within the capabilities and expertise of the driver. Karts are not to approach within one kart length or width of another kart during competition events. Failure to comply may result in penalty or disqualification.

Flags

Green – signals start of the event.

Red – stop immediately. Do not start/move until directed to do so by a Marshall.

Yellow – caution. Slow down and be prepared to stop. Raise one arm in the air. Follow the instructions of any Marshall.

Black – A penalty has been incurred.

Chequered – End of event.

Crashes/breakdowns

If you have an accident or breakdown during an event, remain in the kart with both arms raised. Wait until you receive instructions from a Marshall. No team members are allowed on track until race is formally suspended. If any parts are lost during racing the Marshall must be immediately notified.

Any kart involved in an accident must be scrutineered before re-competing.

Sprint

The Sprint notionally involves competitors starting in a defined starting 'box', undertaking a 100m sprint, executing a 180 degree turn and then returning to a stopped position wholly within the finish 'box'. A series of cones will be placed to identify the course. Failure to remain within the area marked by the cones or hitting the cones will result in a penalty being awarded. An overshoot area will be provided at both ends of the course.

Starting

When your kart is in position the starter will lower the green flag. Timing will then commence.

Stopping

Karts must come to a complete stop within their designated Stop Box. Engine shut down and both hands raised before timing stops. Karts failing to stop within the box will have that run unrecorded.

Slalom

The slalom is broadly similar to the Sprint with the exception that the slalom sections contain a series of cones placed at varying intervals that competitors must weave through. A series of cones will be placed to identify the course. Failure to remain within the area marked by the cones or hitting the cones will result in a penalty being awarded. An overshoot area will be provided at both ends of the course.

Starting

When your kart is in position the starter will lower the green flag.

Stopping

Karts must come to a complete stop within their designated Stop Box. Engine shut down and both hands raised before timing stops. Karts failing to stop within the box will have that run unrecorded.

Relay

The relay involves approximately four karts per heat. Each kart must complete 8 laps of the circuit, with a driver change after each 2 laps. A pit grid will be set up for driver changes to occur. Karts must be stopped and engines off before change over can commence. Note the relay finalists are selected on fastest run times, not position achieved in the heats.