



Downhill racing is great fun, as well as being a very environmentally friendly pursuit. To keep it fun and safe for the competitors and the spectators, Tetbury Lions have published an updated Rules & Regulations on the website www.tetburywackyraces.co.uk

But for the constructors, this guide is provided in a printable form to download and keep for easy reference when designing and building your racing cart. All vehicles will be checked and scrutinised to ensure they meet the specifications listed here. It is strongly recommended that all dimensions and safety advice are followed when building your entry.

A guide to building your racing cart

Design

When designing your soapbox, remember, we encourage brightly coloured entries, sponsors and advertising adornment, and preferably the team name painted on. It's not all about speed, there is a prize awarded for originality. "Naked" soapboxes consisting of chassis only will not be allowed.

Dimensions

Carts should not exceed the following overall dimensions:

Length - 2300 mm. Width - 1418 mm.

When seated, there must be no less than 700 mm between the driver's eyeline and the road.

Ground clearance - sufficient clearance must be allowed to clear the speed bump in Cirencester Road.

Towing

All carts MUST be fitted with a permanent towing eye at the front. It must be clearly visible, easily accessible, and be manufactured from minimum 10 mm steel bar, or steel plate with a hole to take an M10 clip hook.

Braking

Good brakes are essential and will be checked. Braking must operate on at least two wheels on the same axle, and be effective in holding the soapbox stationary at the start of the course.

Seating

The driver's seating must be securely bolted or welded to the cart. The vehicle must be designed to carry one person only in a forward facing direction, and the driver must remain seated at all times. Seatbelts are not mandatory, but are recommended.

All carts must be fitted with a substantial roll-bar which should be at least 35 mm above the driver's helmet when the driver is seated.

Propulsion

After the initial 10 foot "Push zone" no motors, pedals or stored energy may be used, it has to be gravity.

Driver access

Any doors or hatches required for driver access must be easily operated from both inside and outside the vehicle without the use of tools. Bodywork and controls must not impede the driver in exiting the vehicle unaided.

Wheels

Your cart must be fitted with four wheels, one on each corner (more than two in line wheels will not be allowed). All wheels must be in contact with the road during normal running.

Steering

Steering must not have excessive free play which could affect stability. The following steering methods will **not** be permitted: 1. Rope and Plank. 2. Feet on the front axle. 3. Differential braking (skid) steering. 4. Lean steering i.e. skateboard control.

Safety

All welding and general construction should be of a good standard. Any steering column, brake lever or other protrusion must be designed such that the risk of puncture injuries is minimised. The floor should be enclosed to prevent the driver's feet from coming into contact with the road.

There must be no sharp edges or protrusions inside or outside the cart. Glass, perspex or any other materials that may shatter and cause injury in the event of a crash must not be used.

Team Clothing

The driver's body and limbs must be fully covered with abrasion resistant clothing. And a helmet should be worn during racing and while the cart is being towed. Safety clothing specifications are listed in the full Rules & Regulations on the website.