

# C0<sub>2</sub> DRAGSTER RULES

## GENERAL REGULATIONS

All contestants entering this contest must follow all rules listed below as well as any announced at the time of the race and car construction. You will be held accountable for knowing and following all rules and guidelines.

## ELIGIBILITY

This contest is open to any ASME member or MSOE student/faculty. A limit of **two** students may enter as a single team, each team may only enter **one** dragster.

## OBSERVER RULE

Observers are to stay within the instructed viewing areas. Observation of the race is encouraged; however, observers who interfere with either the race or the judging process will be required to leave the race area, if said observer has an entry within the race his/her dragster shall be disqualified.

## CONTEST PROCEDURES

1. Each team shall be given one stock dragster body kit to construct a dragster from
2. Dragsters must be constructed during the allotted time, within the provided facility, using given tools, personal tools are allowed but must be checked in with an official
3. Cars not conforming to the specifications set forth in the rules will be disqualified. If time and circumstances allow, disqualified cars may be run to allow their builders to compare performance with the qualified entrants. Disqualified cars will not be eligible for any prizes or awards.
4. Judging criteria are:
  - a. Place finish in the race
  - b. Final standing after bracketed racing has closed**NOTE:** The judge's decision will be final.
5. Power plants (CO<sub>2</sub> cartridges) will be provided by the officials only
6. Additional dragster vehicles may be purchased after all entrants have received a kit from the officials

## DRAGSTER SPECIFICATIONS

1. Once a team has completed their dragster it must conform to the following
  - a. The provided block must be used as the main body
  - b. Wheels must be from the supplied plastic wheels. The wheels may be modified. i.e. flash from the injection molding process may be removed
  - c. The dragster must use at least three of the provided wheels, 2 wheels must be constructed at the rear
  - d. Axels must made from the provided steel
  - e. Axel lubrication must be done before cars are handed in for inspection

f. Specific limitations of the construction are as follows

| Area of Specification                                      | Limitations |         |
|--|-------------|---------|
|  | Minimum     | Maximum |
| a. Dragster body (length)                                  | 7.75 in     | Stock   |
| b. Dragster body (dia. at thinnest point)                  | .25 in      | Stock   |
| c. Power plant - depth of hole                             | 1.75 in     | Stock   |
| d. Power plant housing thickness (around entire housing)   | 1/8 in      | Stock   |
| e. Wheel base  | 4 in        | Stock   |
| f. Height of the cartridge hole (floor to centerline hole) | 1.5 in      | 1.5 in  |

**NOTE:** Dragsters will be disqualified which fail to meet the specifications listed above.

- g. Creativity is encouraged, however ***if you feel what you are attempting may disqualify your dragster please check with an official*** if it will be allowed to race to avoid conflicts
- h. Any dragster deemed unsafe by an official shall be immediately disqualified

### 3. Racing

- a. Cars will be run through a bracketing and elimination system, with bracketing chosen at random.
- b. No repairs or maintenance on entries will be allowed after entries have been secured by the judges unless deemed necessary.
- c. Any entry damaged during the race will be evaluated by the judges to determine whether or not it will be allowed to race again.
- d. In the event that a dragster is damaged, the judges will make a ruling as to whether or not the dragster may be repaired by the entry team. This is the **ONLY** reason a team would be allowed to touch their dragster after registration.
- e. Undamaged wheels which come off during the contest may be replaced as determined by the technical committee chair. Damaged wheels may not be replaced unless deemed so by a judge.
- f. The dragster must have live axles (Axle must turn with wheels). The car shall start the race on the ground.

# ENTRACE FORM

*For officials use only*  
DRAGSTER # \_\_\_\_\_  
TIME REGISTERED: \_\_\_\_\_  
INSPECTION TIME: \_\_\_\_\_  
INSPECTION RESULTS: \_\_\_\_\_

TEAM NAME: \_\_\_\_\_

TEAM MEMBERS: \_\_\_\_\_ X \_\_\_\_\_  
\_\_\_\_\_ X \_\_\_\_\_  
\_\_\_\_\_ X \_\_\_\_\_  
\_\_\_\_\_ X \_\_\_\_\_

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## INSPECTION:

Dragster body (length): \_\_\_\_\_

Dragster body (dia. at thinnest point): \_\_\_\_\_

Power plant - depth of hole: \_\_\_\_\_

Power plant housing thickness (around entire housing): \_\_\_\_\_

Wheel base: \_\_\_\_\_

Height of the cartridge hole (floor to centerline hole): \_\_\_\_\_

NOTES:

**PREFORMED BY: x** \_\_\_\_\_

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HEAT 1  
Vs. \_\_\_\_\_ Result: \_\_\_\_\_

HEAT 2  
Vs. \_\_\_\_\_ Result: \_\_\_\_\_

HEAT 3  
Vs. \_\_\_\_\_ Result: \_\_\_\_\_

HEAT 4  
Vs. \_\_\_\_\_ Result: \_\_\_\_\_

HEAT 5  
Vs. \_\_\_\_\_ Result: \_\_\_\_\_

PLACE FINISHED: \_\_\_\_\_