QID Process

**TI** – Static Technical Inspection of Bot for safe operation and compliance with paper
**Q** – Que for Bots waiting to enter the track
**A** – Stationary Test of E-Stop Operation, Tracking System and Bot warning devices
**B** – Dynamic Test of E-Stop Operation and Tracking System on moving Bot
**C** – Start Track Timer
**D** – Test Bot navigation, compliance with RDDF and sensing through obstacle field
**E** – Measure Bot transit time from point C, through obstacles, to point E
**F** – Assess Robot’s reaction to a moving obstacle
**G** – Operate E-Stop (*pause and disable*), retrieve data, remove vehicle from track
DGC Rule 1.4 - Route Description:
The Route will include surfaced and un-surfaced roads, trails, and off-road areas. Man-made and natural obstacles are to be encountered—both above and below the surface of the average terrain. Examples of obstacles include shallow and deep washboards, ditches, open water, rocks/boulders, underpasses, construction, and other vehicles. All obstructions on the route can be either accommodated or avoided by a commercial 4X4 pick-up truck...
QID Obstacles - West

- Car
- Overpass
- Boulders
- K-Rail
- Moving Obstacle

- Washboard

OP Judge

Speed Judge
Dirt Hills

Purpose: This obstacle configuration tests the Bots ability to negotiate rough terrain.
Purpose: This obstacle configuration tests the Bots ability to detect, avoid and bypass an obstacle.
**Purpose:** This obstacle configuration tests the Bots ability to detect, avoid and bypass other static vehicles on the road.
Purpose: This obstacle configuration tests the Bots' ability to negotiate a steep hill, as will be encountered on the Course. Vehicle will negotiate hill perpendicular.
Purpose: This obstacle configuration tests the Bots ability to maintain traction while negotiating through the Course.
Purpose: This obstacle configuration tests the Bots' ability to negotiate or avoid a Ditch, as will be encountered on the Course.
Purpose: This obstacle configuration tests the Bots' ability to negotiate a cattle guard, as will be encountered on the Course.
Purpose: This obstacle configuration tests the Bots ability to negotiate through a narrow, short overpass as will be encountered on the Course.
**Purpose:** This obstacle configuration tests the Bots ability to negotiate a route bounded by tight boulders.
Purpose: This obstacle configuration tests the Bots ability to detect the sudden presence of a vehicle to the front and stop to prevent hitting the obstacle.
**Washboard**

**Purpose:** This obstacle configuration tests the Bots resiliency and ability to negotiate an off-road “washboard surface”