



MCA 2024 Mixer Driver Competition

Rules & Challenge Descriptions

Competition 1—Driving Course & Ability Challenges

DRIVER COMPETITION RULES

- 1) Drivers must wear their seat belt.
- 2) Drivers must remain seated while driving.
- 3) The driver's head must remain inside the cab at all times.
- 4) There are no cell phones allowed in the cab.
- 5) While on the course, drivers can only communicate with the judges.

**ORDER & TYPES OF CHALLENGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

Railroad Crossing Challenge: Driver attempts to stop 15 – 20 feet away from the Rail Road tracks. Driver must stop, set the parking brake and sound the horn to signal. The judges to measure the distance from closest track to the front of the truck. Points are awarded 15' being the highest and 20' the lowest. No points for distances less than 15' or more than 20'.

Tennis Ball Drive-Through Challenge: Driving forward, driver passes through a series of 10 tennis balls set up on tees. The balls are spread 4" wider than the tire spread. The goal is to not knock any balls over. Points are tallied per the number of balls left standing

Tightest Turn Challenge: Driver must turn left without stopping, trying to get the wheels on the left (driver's) side of the truck as close as possible to a mailbox without hitting it. Driver cannot stop during the turn but can slow to a crawl.

On Target Challenge: Driver drives directly over a target mat, trying to stop with the center of the rear bumper (front discharge) or the pivot point of the discharge chute (rear discharge) directly over the bulls' eye. The score is based on which circle of the target a plumb bob hung from the center point falls into.

Forward Stop Challenge: Driver proceeds forward towards a stop line marked by a barricade. The goal is to get the front-most point of the truck bumper as close as possible to the line without crossing it. After stopping, the driver must set his parking brake and honk the horn to signal the judges to measure the distance from the line. The driver may stop while inching forward, but may not reverse.

Backing Stop Challenge: Driver backs towards a stop line marked by a barricade. The goal is to get the rear-most point of the truck as close as possible to the line without crossing it. After stopping, the driver must set his parking brake and honk the horn to signal the judges to measure the distance from the line. The driver may stop while inching backward, but may not pull forward.

Parallel Park Challenge: Driver parks as close as possible to parallel enclosure. Must complete going forward without going past final marking. Driver must set their parking brake and honk the horn to signal the judges to measure the distance of the right rear drive tire to the line

Rear Wheel Back-through Challenge: Driver backs the left rear wheels of the truck through a series of 10 tennis balls-on-tees. The balls are spread 4” wider than the tandem or tire width. The goal is to not knock any balls over. Points are tallied per the number of balls left standing

Scale Box Challenge: Driver slowly backs left rear tandem into a 2’x 2’ square marked on the pavement. The box is similar in size to a portable scale pad. The driver stops, sets the parking brake and sounds the horn to signal the judges to check the wheel position. Scoring is based on whether the wheel(s) are out of the square, partially in the square or all the way in the square.

Chute a Hoop Challenge: A basketball is placed in a raised mixer truck chute with all its extension chutes in-place. The truck remains stationary. The driver swings, lowers and raises the chute in an effort to drop the ball into a basketball hoop.



Break an Egg Challenge: As with the Chute Hoops challenge, the mixer truck stays stationary for the Break an Egg challenge. The driver drops the chute to the height they think will be close to the egg. They then swing their chute over without moving up or down in an effort to “almost touch” the egg on a pedestal without breaking it. Judges will measure the distance from the lip of the chute to the egg to the nearest quarter inch. A broken egg results in zero points.

Competition 2—Vehicle Inspection

Walk Around, Visual Vehicle Inspection: All drivers will be awarded points on their ability to conduct a timed Visual Inspection of a truck mixer, similar to what a driver would be asked to do during a pre-trip inspection. The vehicle will be isolated on site to prevent pre-inspection. Judges will modify mixer trucks by planting numerous defects on each truck. Each driver will be limited to 5 minutes or to walking around the truck twice. An official judge will accompany each driver and record the defects that are pointed out by the driver. Points will be based on the number of defects found.

Competition 3—Written Test Exam

1 Hour Written Exam: Drivers will take a timed 60 question multiple choice examination based on NRMCA’s Mixer Truck Manual. The manual will be provided with registration. Tests will be scored and points will be given for each correct answer.