

WORLD FIREFIGHTERS GAMES – “Firetruck Challenge” Competition

Local: Instalações da Lisnave – Cacilhas – Almada

Competition: Firetruck Challenge

Date: May 2 and 3, 2022.

Description: Driving a heavy vehicle (VUCI type) on a marked track on the pavement with signaling cones, consisting of a total of nine (9) checkpoints, in the shortest possible time, without collisions. The maximum time to complete the course is 8 min., exceeding it leads to disqualification.

Maneuver	Designation	Measurements (meters) L-Width – L-Length E-Input – S-Output
1	Garage - Start / End -Start / End	L3 X C10
2	Straight line / reverse gear -Straight line/reverse	L3 X C60
3	Confined Space – 3-Stage Inversion –Inversion 3 stages	L15 X C30
4	Dead end -Alley Dock	L3 X C9
5	serpentine -serpentine	L15 X C90
6	Misaligned passage –Offset Alley	L3 X C10 (2)
7	Parallel parking –Parallel Parking	L4 X Vehicle + C2.5
8	tight roundabout -tight roundabout	see brake
9	road narrowing -decreasing clearance	E3 - S2.5

L – Width; C – Length; E – Input; S – Output; Note: the numbers represent the meters to be considered.

REGULATION

Starting in **MANEUVER 1 - Garage - Start / End**, the driver turns right and enters forward gear in **MANEUVER 2 - Straight line/rear gear**.

Arrived at the end of **MANEUVER 2**, performs the same route in reverse gear until the vehicle is positioned facing forward. **MANEUVER 3 -Confined Space – Inversion 3 stages**.

Starts forward march towards **MANEUVER 3 -Confined space – 3 stage inversion**, where you must enter and reverse the direction of travel, leaving the same station in forward gear.

Advance to the front of **MANEUVER 4 – Dead end**, positioning itself in order to enter the rear march at this post.

Go straight ahead, until the roundabout marked by a cone and circular limitation, entering on the right and exiting on the left, positioning yourself to enter **MANEUVER 5 - Serpentine**, leaning to the right of the box until the end. It marches backwards, snaking between the cones until the entrance of **MANEUVER 5 – Serpentine** and proceeds snaking on the opposite side to the one taken in the rearward march until the exit of the Post, on the left side.

Exiting left, enter **MANEUVER 6 - Misaligned passage**, making the delimited route and moving forward.

In **MANEUVER 7 - Parallel parking** must maneuver to park in parallel in a reverse maneuver. It is considered parked when the vehicle does not present any part of the structure outside the alignment of the cones on the left.

Leave the parking lot, go straight ahead and turn left, going straight until the end of the road, where you should approach **MANEUVER 8– tight roundabout** going around the roundabout marked by a cone on the right and moving forward.

In **MANEUVER9 - Narrowing of the way**, must pass between the two lines of cones arranged to taper the track, with a wide entrance and a narrower exit. After MANEUVER 9, turn right and park in the rear on **MANEUVER1 - Start / End Garage**, where the proof ends.

Rules and conditions applied:

1. An Urban Fire Fighting Vehicle (VUCI) is available with the maximum measures of 2.10 m X 6.20 m;
2. A Rescue Ambulance (ABSC) is provided with the respective accredited crew to support the tests;
3. Lines corresponding to the lines of cones that make up each of the 9 Maneuvering Stations will be marked on the pavement, to facilitate replacement in case of overturning or projection;
4. The organization ensures the presence of a translator, or electronic translation devices for participants who request it;
5. The Organization reserves the right to proceed with the collection of photographic or videographic images, either for marketing purposes or for the purposes of proving the commission of an irregularity subject to penalties;
6. All the circuit steps (9 maneuvering stations) will be explained to the participants before the official start of the races.

Assessment / Classification Methodology:

1. The test is individual, being only allowed the presence of the driver in the cabin;
2. The race begins in MANEUVER 1 – Garage Start / End, starting the timing with the ignition on and ends at the same point in MANEUVER 1 – Garage Start / End, with the ignition off.
3. In case the vehicle has air leakage in the pneumatic circuit, charging time is necessary after starting the engine, it will be agreed between the organization and participants the start of timing after a horn blast, by the driver. In case of doubt, this process must be applied regardless of whether or not there are air leaks;
4. Timing is carried out by an element of the organization or its support, with timekeeping equipment provided by the same;
5. It is considered tacitly accepted by all those involved, the use of common timekeeping equipment (chronometers), without mandatory certification;
6. The test must be carried out in a **timed maximum of 8 minutes**;
7. If the competitor exceeds the maximum time (8 min.), the race will be definitively interrupted, resulting in the disqualification of the participant;
8. For each tennis cone/ball dropped, **a penalty of 20 seconds (20") is applied**;
9. It is considered "overturning" the fall of a cone or its projection **more than 2 cm** from the place of origin or the marked line or the simple fall of the tennis ball, even without displacement of the cone;
10. Cones knocked down are replaced by elements of support to the organization, which may cause a new penalty, if knocked down or projected once again by the same participant, as well as the fall of the respective ball;
11. The time required to replace the constituent elements of each of the stations, is added to the time spent by the participant in the execution of the respective test, without stopping the chronometer;
12. The replacement of cones / balls is mandatory before the vehicle passes through the test;
13. The execution order of each Post must be respected, under penalty of penalty;
14. In view of non-compliance with the order of execution of the maneuvering stations, it is mandatory to resume the race at the beginning of the last correctly executed Position, without stopping the chronometer; at the end of the execution of the position maneuver performed out of order, the evaluator informs that he must assume the final position of the last position executed in the correct order, still **suffering a 2-minute penalty**;
15. According to the principle established in the previous number, each maneuvering post not completed in its entirety, represents a **penalty of 2 minutes** added to the total test time;
16. In the event of a tie in race times, the participant with the lowest accumulated time of penalties will assume the most privileged position;

17. Any issues arising from complaints presented by the participants will be analyzed and the positions taken will be presented by the Jury/Organization collective, hereinafter designated.
18. Faced with more complex issues, which require a more in-depth analysis of the grounds that support them, the Jury reserves the right to respond a posteriori, in writing to the interested party.

Jury / Organization

Pedro Machado, organization of WFG Portugal 2022;
Francisco Ortigão, organization of the WFG Portugal 2022;
Vítor José Mourato, AT Conduction trainer, from the National School of Firefighters;
Nuno Miguel Marques, AT Conduction trainer, from the National School of Firefighters;
Rui Manuel Henriques, AT Conduction trainer, from the National School of Firefighters;
José Armando Mendes, AT Conduction trainer, from the National School of Firefighters.

Responsibilities

Each participant is responsible for any damages or breakdowns that occur in the vehicles during the period in which they take the test.