

<u>Competitor Instruction Sheet – Task A – Vehicle Inspection</u>

This task is intended to test your ability to carry out a safety inspection on a vehicle

- 1. Carry out a visual inspection on the vehicle as prescribed on the report sheet
- 2. Complete the safety inspection report recording any faults identified

Note; you are not required to rectify any faults found

You have **45 minutes** to complete this task





<u>Competitor Instruction Sheet – Task B - Final Drive</u>

| Competitor Name_ | | | |
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This task is intended to test your ability to reassemble and adjust a differential, the differential will be removed from the axle and on a bench.

The crown wheel, sun gears and planet gears are removed from the differential carrier.

Refit components and correctly adjust.

Calculate the final drive ratio.





<u>Competitor Instruction Sheet – Task C - Measure and report on the condition</u> <u>of an engine crankshaft</u>

Competitor Name_____

| The task is intended to test your ability to inspect and report on the condition of an engine crankshaft |
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| Gather technical details from Engine Manufacturer |
| Measure and report on main bearings journals and big end bearing journals and compare with manufacturers Specifications |
| Measure and report on flatness of cylinder block and head mating surface and compare with manufacturers specifications |
| Give an overall report on the Engine crankshaft serviceability |





Competitor Instruction Sheet – Task D - Electrical Systems

| Competitor Name |
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| This task is intended to test your ability to diagnose a non-start fault and notify the judge. |
| Report whether the vehicle charging system is operating correctly. |
| Check does vehicle start |

- 2. Check battery voltage
- 3. Replace battery if required
- 4. Identify non start fault
- 5. Carry out charging tests



Competitor Instruction Sheet – Task E - Vehicle Braking System

| Competitor Name | |
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| This task is intended to test your ability to carry out a brake disc service check. | eability |
| The driver is complaining of shuddering through the steering wheel who braking. | nen |
| | |

- 1. Raise vehicle and remove near side front wheel
- 2. Dismantle and inspect the front brake assembly and report on the serviceability of the brake pads and disc.
- 3. Record your measurements on the attached report sheet
- 4. Assemble the brake components fitting new brake pads
- 5. Re-fit road wheel and torque to manufacturers specification

