

This LAP examines: • The differences in the roadworthiness inspection, service and maintenance (process and requirements) for hydrogen L category vehicles compared to conventional vehicles, • The responsible authorities/independent bodies to carry out technical inspections • The requirements to operate a testing centre/service and maintenance company for hydrogen vehicles;

Is there a difference in the service and maintenance inspection (process and requirement) for a hydrogen vehicle compared to a conventional vehicle?
a - motorcycles (and bikes)

a - Maintenance needs and service requirements for motorcycles with hydrogen and fuel cells are similar to those of conventional ones. Manufacturers are publishing guides with maintenance and safety.

b - quadracycles If yes, please specify, e.g. what are the specific maintenance needs and service requirements for hydrogen vehicles?

b - Maintenance needs and service requirements for quadracycles with hydrogen and fuel cells are similar to those of conventional ones. Manufacturers are publishing guides with maintenance and safety.

Which vehicles are subject to technical inspections (roadworthiness tests)?

The obligation to inspect is subject to all registered vehicles.

Is there a framework and if yes, what are the requirements to operate a testing, inspection and certification (service and maintenance) company for hydrogen vehicles? a) technical i. motorcycles (and bikes) ii. quadracycles b) legislative / certification i. motorcycles (and bikes) ii. quadracycles

a) technical i. motorcycles (and bikes) ii. quadracycles – There is a legal framework and a set of technical norms that do not take into account the type of fuel b) legislative / certification i. – Periodic Technical Inspection (ITP Certificate)

Which are the responsible authorities/independent bodies to carry out technical inspections?
a - motorcycles (and bikes)

a - Romanian Auto Register (RAR) and the stations of periodical technical inspection authorized by RAR.

b - quadracycles

b - Romanian Auto Register (RAR) and the stations of periodical technical inspection authorized by RAR.

Is it a barrier?: No

Assessment: The service and maintenance have no impact on hydrogen mobility, is similar like for conventional mobility.

National Legislation

- **Law no. 167/2003 for the approval of the Government Ordinance no. 81/2000.**
Rules concerning the certification of the registration of road vehicles registered in road traffic safety technical regulations
- **Gov. Ordinance no. 81/2000 regarding the certification of the registration of road vehicles registered in the technical norms regarding road safety, environmental protection and the use according to their destination, by periodic technical inspection**
- **Law no. 373/2005 regarding the approval of Government Ordinance no. 40/2005**
- **Gov. Ordinance no. 40/2005 for amending and completing the Gov. Ordinance no. 81/2000**
- **National regulations referring to periodic technique (RNTR 1/2005),**
Specific technical requirements on road safety, environmental protection and in the category of use as intended, provided for in national regulations

EU Legislation

- **Directive 2014/45/EU of the European Parliament and of the Council of 3 April 2014 on periodic roadworthiness tests for motor vehicles and their trailers and repealing Directive 2009/40/EC Text with EEA relevance (with effect from 20 May 2018)**
This Directive establishes minimum requirements for a regime of periodic roadworthiness tests of vehicles used on public roads. This applies to vehicles with a design speed exceeding 25 km/h of the following categories: M1, M2 and M3 (passenger motor vehicles, N1, N2 and N3 (motor vehicles for the carriage of goods, O3 and O4 (trailers over 3,5 tonnes) L (two or three wheels over 125cm³).

Glossary

Service and maintenance

A motor vehicle service is a series of maintenance procedures carried out at a set time interval or after the vehicle has travelled a certain distance. The service intervals are specified by the vehicle manufacturer in a service schedule and some modern cars display the due date for the next service electronically on the instrument panel. Technical inspection (roadworthiness test) means an inspection designed to ensure that a vehicle is safe to be used on public roads and that it complies with required and mandatory safety and environmental characteristics.

Bikes, Motorcycles, Quadracycles

Hydrogen fuel cell vehicle means a vehicle powered by a fuel cell that converts chemical energy from hydrogen into electric energy, for propulsion of the vehicle. L-category vehicles comprise powered two-, three- and four-wheel vehicles, including powered cycles, two- and three-wheel mopeds, two- and three-wheel motorcycles, motorcycles with side-cars, light and heavy quadri-mobiles.