



Training: Hydrogen Vehicles Technician



In general

With the introduction of hydrogen powered vehicles, new technologies emerged in the automotive industry. There are also new risks associated with these technologies, which can lead to serious damage and injury if handled incorrectly. In particular the high pressure, the high voltage and the gaseous fuel makes that the risks differ from conventional vehicles and training of service staff is required.

The training is based on the Dutch guideline PGS26 for CNG & LNG vehicles, however specifically adapted to hydrogen vehicles. The training focuses on basic knowledge about hydrogen production, infrastructure and the use of hydrogen in vehicles, building equipment, agricultural equipment etcetera, and is therefore intended for anyone who is interested in hydrogen powered vehicles.

Content training

- Hydrogen as vehicle fuel update
- Hydrogen vehicle technology – system layout and operation
 - Hydrogen combustion engines
 - Electric propulsion for vehicles
 - Fuel Cell electric vehicles
- Components hydrogen – operation, possible defects
 - Filling connection / check-valves / service connection
 - Hydrogen cylinders
 - Hydrogen cylinder valve incl. all safety functions
 - Fuel Cell
 - Rigid and flexible pipes, fittings and couplings
 - Other hydrogen parts
- Practice (if a vehicle is available at all)
- Workshop furnishing update
- Maintenance and Repair
- Construction / Body Building / Crash repair
- Moving / adding tanks
- Safety
- Regulations update
- Questions and answers
- Examination (optional)

Target audience

Development engineers, technicians, service staff, test engineers, and anyone who will work professionally with hydrogen vehicles.

Practical information

The maximum number of participants is eight (8). The duration of the training is two half-days (about eight hours in total). Previous education or prior knowledge is mandatory. Candidates must have completed the training “Hydrogen Vehicles Basics”. In addition, some knowledge about internal combustion engines and electrical drivetrains is useful.

Please note : this training does not include a full High-Voltage training. An additional High-Voltage training and qualification can be offered separately.

Location

This training can take place at the client’s location or at any location specified by RAP Clean Vehicle Technology.

Working methods

Theory & practice

Certification

An examination and/or certificate is optionally available. The qualification is based on the Dutch Branche Kwalificatie Systeem (BKS).

Qualification according to other national qualification systems (for example German FBHM-099) is optionally available.

Costs

On request