



In order to increase knowledge in Europe about hydrogen and fuel cells, a number of e-learnings is developed in the context of an EU-funded project. In the Fuel Cells for Transport Applications e-learning, you will learn everything about the application of hydrogen as fuel for means of transport.

Training information

Hydrogen plays a prominent role in many scenarios for a more sustainable energy supply. If it is produced in a clean way, hydrogen is considered to be the cleanest fuel, since it doesn't release any greenhouse gases at the source of combustion.

In order to increase knowledge in Europe about hydrogen and fuel cells, a number of e-learnings is developed in the context of an EU-funded project. In the Netherlands, these modules are offered by Kiwa Training (in Dutch or in English). In addition to this module, they are the core module Introduction to Fuel Cells and Hydrogen, and the e-learnings CHP Installations with Fuel Cells, Hydrogen: Production and Treatment, Generators Based on Fuel Cells and Micro Fuel Cells.

Practical information

Course content

This module will address the use of fuel cells in various transport applications, such as cars, buses, forklift trucks and even motor scooters. The following topics will be dealt with:

- The current transport sector and its effect on environmental pollution;
- Solutions in the shape of electric vehicles, with or without fuel cells;
- Fuel cells for powering cars and for the electrical circuit of cars;
- Working safely on vehicles with gas tanks and electrical circuits at high voltages;
- Insight into the storage and supply of hydrogen and the other systems required to make the fuel cell function correctly;
- The electrical circuit and the role of transformers and batteries;
- The structure/arrangement of vehicles with fuel cells;
- Searching for and repairing malfunctions.

In addition to an e-learning, this module also contains a practical part organised at TU Delft or on location (at an in-company training).

Previous training

This module is aimed at participants with a technical MBO education (intermediate vocational education) and some knowledge of chemical processes and electricity. Prior to this e-learning, the participant must have done the Introduction to Fuel Cells and Hydrogen core module, or have mastered the basic knowledge taught in this course in a different manner.

Course duration and study load

You can do the e-learning in your own time and at your own pace. The study load for each module is 40 to 60 hours. The practical part of this module takes one day.

