



**In order to increase knowledges in Europe about hydrogen and fuel cells, a number of e-learnings is developed. During the Generators Based on Fuel Cells e-learning, the construction and application of generators making use of fuel cells are examined in detail.**

## **Training information**

Generating sets are usually provided with a combustion engine, a generator and possibly a transformer. But they can also be built based on fuel cells, with the added benefits such as higher efficiency, a lower emission and less noise. This e-learning is about the structure and applications of such generating sets.

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 modules Fuel Cells for Transport Applications, CHP Installations with Fuel Cells, Hydrogen: Production and Treatment and Micro fuel cells

# Practical information

## Course content

During the Generators Based on Fuel Cells e-learning, the following topics will be addressed:

- Function and properties of generators with fuel cells;
- Possible fuels and their possible conversion into hydrogen;
- The structure of such generators, from the fuel tank to the exhaust system;
- Maintenance of generators with fuel cells;
- Safety aspects;
- Applications, available brands and types and expected future developments.

## Previous training

This module is developed for participants with a technical MBO education (intermediate vocational education) and a basic knowledge of chemical processes and electricity. The participant must have previously 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.

