



Co-funded by
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H2Excellence – Fuel Cells and Green Hydrogen Centers of Vocational Excellence Towards Affordable, Secure, and Sustainable Energy for Europe

Call for Applications

“Train the Trainers” Programme in Hydrogen and Fuel Cell Technologies

Introduction and Context

This training activity is implemented within the framework of the project **H2Excellence: Fuel Cells and Green Hydrogen Centers of Vocational Excellence towards affordable, secure, and sustainable energy for Europe**.

A core objective of the project is the development of a **joint transnational training and development programme** in fuel cell (FC) and Hydrogen Technologies, based on modular e-learning content. The programme is structured into three learning pathways (ten modules each), addressing different educational and professional levels: **Vocational Education and Training (EQF 3–5), Higher Education (EQF 6–8), and Lifelong Learning**.

The **Train the Trainers** programme aims to equip teachers and trainers with the skills to effectively use, adapt and deliver the training materials developed within the project.

The programme provides participants with both technical knowledge in hydrogen technologies and **pedagogical and digital skills** necessary to deliver training, particularly in online and blended learning environments. It is also designed to be compatible with a micro-credential-based certification system.

This call is part of a strategy aimed at strengthening the capacities of teachers at all three educational and professional levels in **Fuel Cells and Green Hydrogen technologies**



Course Dates

From **18 May to 5 June 2026**

Delivery Mode

The course will be delivered in an **asynchronous tutored online format** + one synchronous recap session (via videoconference) **5 June 2026 – 11:00 (CET)**

Programme Objective

The programme aims to equip teachers and trainers with the necessary competences to effectively use and implement the online training modules developed within the project, supporting their integration into education and training provision.

Consequently, contributes to enhancing the relevance of training systems to labour market needs, by supporting the development of skills aligned with emerging demands in the hydrogen sector and thereby fostering employability.

Learning Objectives

Knowledge and Professional Development

- Provide up-to-date knowledge on hydrogen technologies and their applications.
- Support the use of ready-to-use teaching materials and virtual labs.
- Strengthen the ability to communicate complex technical concepts.
- Foster collaboration through communities of practice.

Pedagogical Competences

- Develop skills for delivering technical content in online and blended environments.
- Promote active and learner-centred methodologies.
- Support the design and use of interactive digital content.
- Strengthen assessment and feedback practices.

Digital Competences

- Enhance the use of LMS platforms and digital tools.
- Support the integration of multimedia resources and virtual labs.
- Strengthen the management of online learning environments and communication tools.

Training Programme

Module 1: Fundamentals of Hydrogen Technologies

- Scientific and technical principles
- Technologies and applications
- Safety and regulatory aspects

Module 2: Online Pedagogical Strategies

- Principles of effective online and blended learning
- Design of interactive learning content
- Assessment and feedback methods
- Facilitation of learner engagement

Module 3: Platforms and Digital Tools

- Use of LMS platforms
- Online communication tools
- Learner assessment approaches
- Virtual laboratories
- Micro-credentials

Module 4: Professional Development

- Recent developments in hydrogen technologies
- Virtual technical visits
- Recap and reflection sessions
- Networking and community of practice

Target Audience

The training is addressed to three main profiles of educators and trainers:

- **EQF 3–5 (VET):** teachers delivering practice-oriented technical training.
- **EQF 6–8 (Higher Education):** educators delivering advanced and specialised content.
- **Lifelong Learning:** trainers and professionals engaged in continuous professional development, reskilling and upskilling.

Content and delivery approaches are adapted to the needs of each target group.

Selection criteria and places

Selection criteria: Participants should be potential users of the online module contents in the development of their professional activity as teachers at the different educational levels.

Number of places: 40 participants per educational/professional level (EQF 3–5, EQF 6–8 and Lifelong Learning), for a total of 120 places.

Certification

Participants who successfully complete the course will receive a **certificate of participation** corresponding to 30 teaching hours, with potential alignment to digital micro-credential frameworks.

Registration

Please register through this link in the educational category corresponding to your profile.

<https://agenda.ciemat.es/e/TTT.H2>

<https://h2excellence.eu/>