

H2 VET Forum

Participating organisations:

Facilitator	DST EU Consulting on behalf of Automotive Skills Alliance (ASA)	Contributing Project Partners	Automobile Club de l'Ouest, Hydrogen Europe Research, EDUCAM, TU Dortmund, Karlsruhe Institute of Technology, Vamia, ACEA, ASA, Arcturus.
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Geographical scope:

European

Target group(s)

VET teachers/trainers (EQF 3-5) from partner networks/public

Summary/short description:

A **Hydrogen VET Forum**, as part of the 2024 FIA World Endurance Championship 6 Hours of Spa-Francorchamps, will target VET teachers, with the objectives to (1) update on the latest Hydrogen developments, (2) train the trainer activity (present the results or training courses from Hydrogen Blueprint, Hydrogen CoVE, ASA, EII Pfs), (3) general networking and collaboration possibility specifically on Hydrogen education for VET level (specifically IVET) in Europe.

Objectives:

1. Update on the latest hydrogen developments, and the use of hydrogen in mobility, covering topics such as fuels cells and use of H2 in ICE, as well as safety when handling hydrogen tanks and refuelling stations, to name a few.
2. train the trainer activity (present the results or training courses from Hydrogen Blueprint (job skills mapping), Hydrogen CoVE, ASA, EII Pfs),
3. create networking and collaboration possibility specifically on hydrogen education for VET level (specifically IVET) in Europe.

Methodology:

The Forum is composed of a theoretical training complemented by practical information. Learning outcomes for VET teachers aimed by the Forum include :

- The participant can explain the hydrogen market and the value chain.
- The participant can describe how fuel cells work as well as ICE with hydrogen and know basic hydrogen vocabulary.
- The participant has an understanding of the applications of hydrogen in the automotive sector.
- The participant can identify the safety aspects of working with hydrogen.
- The participant can underline the opportunities, areas of application and developments of hydrogen.

- The participant has gained awareness of educational challenges related to hydrogen through networking with peers.
- The participant can apply English language and multicultural skills in an international setting.

Activities:

The Forum was composed of a theoretical training (What is hydrogen, its benefits and H2 education) complemented by practical information. In this particular case, the practical side focused on exchanges with experts and drivers from the two racing teams who demonstrated H2 prototypes in competition for a zero emission motor racing. Participants had the opportunity to attend demonstration laps to see these teams in action. Both theoretical and practical parts were mandatory in order for the teacher/trainer to receive a digital badge confirming the attendance of the course.

Challenges and risks:

As this was a first, the biggest challenge was the very short time to organise the event and consequently inform potential participants. Now that organising entities know each other, replication or similar events will be arranged much faster and provide potential candidates the necessary tie to make appropriate arrangements and seek relevant financial support.

Results:

The Hydrogen VET forum in Spa was an initiative launched by the Automobile Club de l'Ouest, the FIA World Endurance Championship, the MissionH24 and its partners Automotive Skills Alliance, GreenSkillsforH2 and Skills Alliance for Industrial Symbiosis, as part of the 2024 FIA World Endurance Championship 6 Hours of Spa-Francorchamps. The Hydrogen VET forum in Spa aimed to gather current and future teachers and trainers to share ideas and good practices, work together and deepen their knowledge about the hydrogen ecosystem. The event collected 15 teachers and trainers from around Europe.

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Financial support:

No direct support, but part of the Flamenco activities.

Replication and Sustainability:

The event was very attractive, especially because participants were able to interact with technicians of H2 cars, see the H2 race demo and see the start of the WEC race. The eventual replication is linked to the external event, especially other H2 race demo's combined or not with an actual race (Spa, LeMans, etc.). Considering the success of the 2024 Spa event, repetition in 2025 is very likely.

ASA- Automotive Skills Alliance

In setting up the event, ASA was mainly the facilitator between all the stakeholders and also the main contact with the participants.

Further Reading and Acknowledgements:

Without the main contribution of the Automobile Club de l'Ouest (ACO) and the FIA, the event wouldn't have been possible.

Article: [Empowering Europe's Climate-Neutral Future - Insights from the Hydrogen VET Forum 2024 in Spa : AUTOMOTIVE SKILLS ALLIANCE \(automotive-skills-alliance.eu\)](https://automotive-skills-alliance.eu)