

HYDROGEN SAFETY in MOBILE APPLICATIONS

Hybrid Course | 4 ECTS | October 2026 | Open to all unite! students

Offered by:

- Graz University of Technology (host)
- Universitat Politècnica de Catalunya
- Politecnico di Torino

Supported by

Hydrogen Center Austria Ltd.

Language: English

Format:

1st week online

2nd week onsite Graz (AUT)

When: October 2026

Online – 19/10/2026 – 23/10/2026

Graz – 26/10/2026 – 30/10/2026



Main Content:

The HSMA course trains the next generation of engineers to navigate the energy transition by focusing on hydrogen technologies and safety in mobile applications like cars, buses, trains and in the field of aerospace.

Students will explore:

- Hydrogen production, storage, and distribution
- Safety standards, risk scenarios, and failure mechanisms
- Real-world case studies and tunnel safety issues
- Material behaviour under hydrogen exposure
- Risk analysis methods and emergency response strategies

Course Highlights

- ✓ Expertise from leading European universities
- ✓ Deep dive into the topic of hydrogen safety
- ✓ Multidisciplinary teamwork
- ✓ Hands-on group project (Graz, AUT)
- ✓ Lab experience in HyCentA facilities
- ✓ Get to know attendees from 9 European universities
- ✓ Social side events

Why Join?

- Tackle real-world engineering challenges
- Gain practical and theoretical skills on cutting-edge hydrogen applications
- Learn from researchers in energy, material and transport safety

Target groups:

Priority will be given to Master's and PhD students in the fields of mechanical engineering and energy technology. However, applications from students of all disciplines are also very welcome.

Application contact:

To apply to take part, please contact your local coordinator and send them a short letter of motivation and your CV:

TUG:

Daniel Fruhwirt, fruhwirt@tugraz.at

PoliTo:

Davide Papurello, davide.papurello@polito.it

UPC:

Jose Ignacio Rojas Gregorio,
josep.ignasi.rojas@upc.edu

Limited spots are available for each university in the unite! university alliance

