

Fuel Cell and Electrolyser Measurement Training Course 2026

A specialised training course for postgraduate students, industrial researchers, and policymakers

Location	National Physical Laboratory, Hampton Road, Teddington TW11 0LW
Date	6 – 8 October 2026
Fee	£950 per person
Includes	Course materials, refreshments, lunches and one evening networking meal (7 Oct)
Registration deadline	31 August 2026

Reliable measurements are essential for turning hydrogen technologies from promising concepts into deployable systems. Whether you are developing new materials, comparing device performance, assessing durability, or using test data to inform investment and policy decisions, the quality of measurement matters.

This three-day NPL course provides theoretical and practical training in fuel cell and electrolyser (PEMFC, PEMWE, AWE and AEMWE). Through expert lectures and hands-on laboratory sessions in NPL's state-of-the-art facilities, participants will learn how to make, interpret and report measurements with confidence, using international standards and recognised best practice to ensure repeatability and reproducibility.

Who should attend?

- **Researchers and engineers** developing or testing fuel cells, electrolysers and all their constituent materials and components
- **Students and early-career scientists** who need practical grounding in device measurements
- **Policymakers, analysts and programme managers** who need to understand what performance and durability data can, and cannot, tell them

What you will learn

By the end of the course, participants will have a stronger understanding of:

- Measurement principles for fuel cells and electrolysers
- Single-cell and short stack methods
- Cell assembly, materials selection and equipment calibration
- How standards and test protocols are adopted and implemented
- Common sources of variability and poor reproducibility
- Data analysis, reporting and interpretation
- How measurement quality supports reliable technical and policy decisions

Why NPL?

As the UK's National Measurement Institute (NMI), NPL brings a measurement-led perspective to hydrogen technology evaluation. Participants will learn not only how tests are performed but why measurement quality, traceability, uncertainty and standards are central to credible technology assessment. Register now or contact the team at hydrogen-energy@npl.co.uk.

**Places are allocated on a first come, first served basis. VAT, transport and accommodation not included. NPL reserves the right to cancel if the minimum viable capacity is not reached by the registration deadline*