Training - Overview of white hydrogen

INTROH2-EN-P | Face-to-face only | 3 days

Although Hydrogen has been considered as ancillary component of underground fluids in the past, its valorization is now key in the Energy Transition process. This course provides participants with a general knowledge of Hydrogen (H2) and of associated Helium (He) specificities and valorization challenges of these chemical species

Level

Awareness

Public

Junior energy professionals getting involved in white hydrogen projects.

Objectives

Attendees will be able to implement the following skills:
Upon completion participants will be able to:

- Understand the geological context leading to H2/He underground presence,
- Identify underground storage types and specificities,
- Review existing white hydrogen projects.

Pedagogical & technical resources

Interactive presentations, practical exercises, case studies.

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

NATURAL H2 WITHIN HYDROGEN BUSINESS — 0.5 day

The place of natural hydrogen in the manufactured hydrogen business: energy transition, world heterogeneity, hydrogen today, its uses in chemistry.
Its future use and growth as energy vector and source.
Price relations between manufactured and natural hydrogen.

NATURAL H2 GEOLOGY & RESERVOIRS — 1 day

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Natural hydrogen systems and geological knowledge.
Sources, migration, reactivity, accumulation and leakage.
Associated Gases (Helium, Methane...).
Dynamic perception of a blend hydrogen system.

EXPLORATION TOOLS & NATURAL H2 PROXIES — 0.5 day

Surface geochemistry, gamma spectrometry, remote sensing, active and passive seismic, magnetic anomalies, drilling and mud-logging specificities, etc.

H2 PROJECTS REVIEW — 1 day

Case Studies
Examples (Mali, Australia, USA, Brazil, Europe...)

Sessions

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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