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Hydrogen Economy: Infrastructure, Storage, and Transport

COURSE OVERVIEW

This course provides a comprehensive exploration of the critical systems, technologies, and policies driving the global transition to hydrogen as a clean energy carrier. Participants will gain comprehensive knowledge of hydrogen production pathways, infrastructure development, storage technologies, and transportation solutions, alongside the regulatory, safety, and economic frameworks that underpin their successful deployment. With an emphasis on real-world applications, industry innovations, and future opportunities, the course equips participants to understand both the technical and strategic dimensions of hydrogen integration in the energy value chain.

WHO SHOULD ATTEND?

The course is designed for energy professionals, policymakers, infrastructure developers, engineers, project managers, researchers, and decision makers working in the oil and gas, renewable energy, utilities, and transportation sectors. It is also valuable for investors, regulators, and stakeholders seeking to understand the opportunities and challenges of scaling hydrogen infrastructure and enabling its role in the net zero transition.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Analyze the technical and economic feasibility of hydrogen production pathways.
- Design hydrogen storage solutions for stationary and mobile applications.
- Evaluate hydrogen transport and distribution infrastructure options.
- Assess safety requirements and risk management strategies across the value chain.
- Develop business models for hydrogen deployment in industrial and energy sectors.
- Integrate hydrogen infrastructure with existing energy systems and renewable sources.
- Navigate policy frameworks and regulatory requirements for hydrogen projects.
- Plan and optimize hydrogen supply chains from production to end-use.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- The technical and economic feasibility of different hydrogen production pathways.
- Strategies for developing hydrogen transport and distribution infrastructure.
- Safety protocols and risk management across the hydrogen value chain.
- Business models for hydrogen deployment in industrial and energy sectors.
- Integration of hydrogen infrastructure with renewable energy systems.
- Policy frameworks and regulatory requirements governing hydrogen projects.
- Optimization of hydrogen supply chains from production to end-use applications.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded