

Hydrogen: Production, Delivery, Storage and Use

DAY 1

The Role of Hydrogen in the Future Energy Mix

Global view of current energy uses

Climate Change Drivers

Future energy mix to decarbonise economies

The role of hydrogen in reducing greenhouse gas emissions

Properties of hydrogen

DAY 2

Operational Hydrogen Considerations

Current Hydrogen Production

Electrolysis Technologies

Future hydrogen production, blue and green hydrogen

Hydrogen Fuel Cells Technology

Energy networks and the transition to hydrogen fuel

Hydrogen Storage Solutions

DAY 3

Use of Hydrogen in Industrial Applications

Operational challenges and solutions for decarbonising industry

Use of Hydrogen Fuel Cells

Adapting Current Technology

Electrical batteries charge times vs hydrogen refilling times

Economic Inflation Considerations

DAY 4

Use of Hydrogen in Domestic Applications

Current and future energy scenarios for domestic consumers

Use of Hydrogen in Space Heating and Cooking

Hydrogen Distribution Networks

Fuel Gas Quality Considerations



Current Hydrogen Technology and Research

DAY 5

Hydrogen Safety Considerations and Mitigations

Comparison of the properties of hydrogen to other fuels

Stoichiometry and Flammability Range

Safety Mitigations

Equipment Selection and Instrumentation Requirements

Safety Incidents and Case Studies