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An Essential Guide to Hydrogen Safety

Delivered in **Live Online Training** Format

Mar 2022

Part 1: **24th March**	Part 2: **25th March**

Course Parts will commence at **15:00** and end at **18:00** (AEDT). There will be short breaks during each course Part.

Sep 2022

Part 1: **29th September**	Part 2: **30th September**

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2 Part Series

KEY LEARNING OBJECTIVES

- Identify practical risks associated with the use of Hydrogen
- Determine the scale of risk depending on the application and quantity of Hydrogen
- Examine previous major accidents involving hydrogen and lessons learned
- Understand the risk control, mitigation and elimination strategies and techniques for the production and use of hydrogen
- Examine the practical approaches to Risk Management

Our Expert Course Instructors

Charley Rattan

Hydrogen and Offshore Wind Business Advisor and Trainer,
Charley Rattan Associates

Shaun Minty

Training Director
Coeus Energy

James Hamilton

Managing Director
Coeus Energy

Paul Pinkerton

Commercial & Strategy Director
Coeus Energy

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ABOUT THE COURSE

The hydrogen economy is expected to grow exponentially across the globe in the coming years. For example, the UK recently set a target to produce five gigawatts of hydrogen by 2030, representing a 40-fold increase from the current situation. This ambition is replicated across the globe where hydrogen strategies are appearing on a weekly basis. The journey to a hydrogen economy will be challenging and the very top priority will be that it is implemented and delivered safely. This course details how global leaders can do just that. Developers require their people and supply chain to possess the necessary skills and competencies to deliver hydrogen projects safely, on time and with the highest quality standards.

The course aims to enable companies to make informed health and safety related decisions and plans based on the real opportunities that are emerging as the global hydrogen economy develops. Delegates will be guided as to where early opportunities are most likely to lie, who is involved and how to engage on their top priority with them.

WHO WILL BENEFIT

- Existing energy companies, particularly those who are already part of the oil and gas supply chain and those looking to future proof their capabilities
- Particularly relevant to engineering companies, involved in storage compression equipment and shipping
- Companies seeking to enter the energy arena with its myriad opportunities in a market valued by the Bank of America at 11 trillion dollars.

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COURSE DIRECTORS

Charley Rattan, CRA

International hydrogen trainer and offshore wind energy renewable advisor with +25 years' real-world experience and successful major project delivery for Shell, SSE and EON. Supports UNIDO and the North German Offshore Wind and hydrogen group.

Shaun Minty, Coeues Energy

20 years of experience in international emergency response, skills and safety training. Led the development of international digital standards and associated training products. Led and managed international accreditation and competency services.

James Hamilton, Coeues Energy

Over 15 years of experience delivering skills and training solutions to the global energy industry. Delivered competency frameworks and nationalisation projects for governments, IOCs and NOCs. Led and managed the delivery of the UKCS apprenticeship program on behalf of operators.

Paul Pinkerton, Coeues Energy

15 years of experience in global Project & Business Delivery. Project Lead for Strategic Staffing Plans, Statistical Labour Market Analysis & Resourcing Delivery for Major Capital Projects up to £50bn, inc. gap analysis and training, nationalisation planning.

Would You Like To Run This Course On-Site?

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Course Outline

HYDROGEN OVERVIEW AND INTRODUCTION

- Hydrogen Rollouts and National Plans
- Common Uses of Hydrogen Now and into the Future
- The Production of Hydrogen for Industrial Uses
- Hydrogen Storage and Associated Costs
- Hydrogen Transportation Methods

PHYSICAL PROPERTIES AND CHARACTERISTICS OF HYDROGEN

- Propane and Hydrogen Flame Comparison
- Fukushima Nuclear Disaster

LEGISLATION AND HYDROGEN

- Typical Legislation Hierarchies
- The Role of the Regulator

MAJOR ACCIDENT CLASSIFICATION

TYPICAL DOCUMENTATION REQUIREMENTS

- Safety Report
- Emergency Response: Internal and External]
- Major Accident Prevention Policy
- Safety Management System

TYPICAL NOTIFICATION REQUIREMENTS

- Regulator
- Local/Regional Authorities
- Environmental Agencies
- Emergency Services

EMERGENCY RESPONSE CONSIDERATIONS

GENERAL SAFETY HIERARCHY OF CONTROL

- Hydrogen Specific Controls

DANGEROUS SUBSTANCES AND EXPLOSIVE ATMOSPHERE REGULATIONS

- Gas and Dangerous Substance Risk Controls
- Gas and Dangerous Substance Mitigation
- Swiss Cheese Model
- HSE Publications

ORIGINAL EQUIPMENT MANUFACTURERS

CASE STUDIES

- Fukushima
- Muskingum River Power Plant
- Uno X Hydrogen Refueling Station

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Easy Ways to Register

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Course Code	Location	Course Parts	Month	Standard Price		4+ Dels Discount
P22GR39V	Live Online Training	All 4 Parts	March 22	$1,695 + $169.50 GST	**$1,864.50**	**Great Savings:** When you book **4 or more** participants! **Call us** today on **+61 (2) 9080 4395** or email **training@informa.com.au** to take advantage of the discount offer.
P22GR3902V	Live Online Training	All 4 Parts	September 22	$1,695 + $169.50 GST	**$1,864.50**	

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Informa Corporate Learning has a long-standing track record of delivering very successful customised learning solutions achieving real and measurable value for our clients through our senior training consultants.

If you have 8+ interested people, an on-site course can be the ideal solution – giving you the opportunity to customise our course content to your specific training needs, as well as attracting significant savings compared to public course costs.

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3. **On-site training** is a cost effective way to train your people and achieve your defined outcomes.

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