

SIAS Level 2

Introduction to Hydrogen Safety



Welcome to SIAS

SIAS is an Awarding Organisation regulated in England by the Office of Qualifications and Examinations Regulation (Ofqual) and in Northern Ireland by the Council for Curriculum, Examination and Assessment Regulation (CCEA).

We exist to drive positive change, and across STEM industries globally, we empower learners to achieve their full potential.

As the leading Awarding Organisation for the technical science, manufacturing, engineering and low carbon sectors, we are disrupting through innovative and collaborative approaches.

Our mission is to deliver transformational experiences and solutions that support the skills agenda.



Key Facts

Qualification Title	SIAS Level 2 Award in the Introduction to Hydrogen Safety
Qualification Number	610/5375/2
Guided Learning Hours (GLH)	16
Total Qualification Time (TQT)	8
Assessment Methods	Multiple-choice Question Examinations
Operational Start Date	1st March 2025
Regulation	This qualification is regulated by Ofqual

Qualification Objective

The SIAS Level 2 Award in the Introduction to Hydrogen Safety aims to provide learners with a foundational understanding of the hydrogen industry, including its role in the transition to a low-carbon economy and relevant legislative frameworks. Learners will develop knowledge of process design principles and safety considerations essential for hydrogen production, storage, and utilisation. Additionally, the qualification will equip learners with the ability to identify hazards, assess risks, and understand how to implement appropriate control measures to ensure safe and compliant hydrogen operations.

The qualification is aligned to the Hydrogen Skills Framework, developed by Cogent Skills on behalf of the Hydrogen Skills Alliance serving as the industry standard for hydrogen training. The qualification supports workforce development by providing individuals with the foundational knowledge needed for safe and compliant hydrogen operations, contributing to the transition to a low-carbon economy.

Entry Requirements

This qualification is available for learners aged 16+.

There are no formal entry requirements for the SIAS Level Award in the Introduction to Hydrogen Safety. However, learners should have a basic understanding of English and mathematics. Centres should also ensure learners are able to complete this qualification, for example, through completing an initial assessment to ensure they can work at the appropriate level.

Qualification Structure

To be awarded the SIAS Level 2 Award in the Introduction to Hydrogen Safety learners must achieve the following.

- All mandatory units listed in the table below.

Ofqual Unit Reference	Unit Title	Level	GLH	TQT
R/651/5070	Introduction to the Hydrogen Industry and Legislation	2	2	3
T/651/507	Introduction to Hydrogen Properties, Process Design and Safety	2	3	6
Y/651/5072	Introduction to Hazards, Risk and Controls Associated with Hydrogen	2	3	7
TOTAL			8	16

Grading

This qualification is graded as a pass/fail.

Assessment Method(s)

Unit Title	Assessment Method	Set by	Marked by
Introduction to the Hydrogen Industry and Legislation	Externally set and marked multiple-choice question examination	SIAS	SIAS
Introduction to Hydrogen Properties, Process Design and Safety			
Introduction to Hazards, Risk and Controls associated with Hydrogen			

Centre and Qualification Approval

To deliver this qualification, the centre must be recognised by SIAS and must apply for approval for each qualification they intend to offer.

For details of our centre and qualification approval process, visit our website or contact us at info@siasuk.com.

Further Information

For information about SIAS and general enquiries please see our website: www.siasuk.com or contact:

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