

SIAS Qualification Specification

SIAS Level 2 Award in Battery Manufacturing Awareness

Qualification Number: 610/7688/0

Operational Start Date: 1st July 2026

Operational End Date:

Certification End Date:

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Version History

This is a live document and as such will be updated when required. It is the responsibility of the approved centre to ensure the most up-to-date version of the Centre Qualification Specification is in use.

Version	Date	Comments
1.0	30/6/2026	First published

Introduction

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 Regulation).

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.

Feedback

Customer experience and feedback is very important to us. We're always open to suggestions when it comes to enhancing and improving our services. If you have any comments or feedback on our services or products, please contact our team at info@siasuk.com or call us on 01925 515211.

About this Specification

This document has been developed to provide guidance for learners and centres undertaking, delivering or quality assuring this qualification.

Centre Recognition and Qualification Approval

To deliver this qualification, the centre must be recognised by SIAS.

Recognised centres must apply for approval for each qualification they intend to offer. Qualification approval must be obtained prior to conducting any learner assessments.

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

About this Qualification

Key Facts

Qualification Title	SIAS Level 2 Award in Battery Manufacturing Awareness
Qualification Number	610/7688/0
Guided Learning Hours (GLH)	6
Total Qualification Time (TQT)	7
Assessment Methods	Multiple-Choice Question Examination
Operational Start Date	1 st July 2026
Review Date	30 th June 2029
Operational End Date	-
Certification End Date	-
Regulation	This qualification is regulated by Ofqual

Qualification Objective

The SIAS Level 2 Award in Battery Manufacturing Awareness is aimed at those who are new to working within a battery manufacturing work environment. The qualification aims to introduce learners to the nature and use of batteries, as well as key processes within their manufacture. Learners will explore the nature of common battery cell formats, including their strengths and limitations, before developing an understanding of the main components of a lithium-ion battery cell and the functions that each component performs. Learners will also be introduced to the battery cell manufacturing process, including the order and purpose of key stages in this process, before an introduction to the concepts of sustainability and traceability in the battery manufacturing environment.

The SIAS Level 2 Award in Battery Manufacturing Awareness has been developed by SIAS in partnership with the UCS College Group and Agratas.

Entry Requirements

This qualification is available for learners aged 16 and over.

There are no formal entry requirements for the SIAS Level 2 Award in Battery Manufacturing Awareness. However, learners should have a basic understanding of English and mathematics.

Centres should take reasonable steps to ensure learners are able to complete this qualification, for example by carrying out an initial assessment to confirm they can work at the appropriate level.

Recognition of Prior Learning

Recognition of Prior Learning (RPL) is the process of recognising previous, informal or experiential learning so that the learner avoids having to repeat learning or assessment within a new qualification. SIAS supports the use of RPL and centres must work to the principles included in the SIAS RPL Policy which is available on the SIAS website. This policy should be reviewed alongside this guide and all other relevant SIAS qualification documentation.

Qualification Structure

To achieve the SIAS Level 2 Award in Battery Manufacturing Awareness, learners must achieve the following mandatory unit contained in the table below:

Ofqual Unit reference	Unit title	Level	GLH	TQT
J/652/2376	Unit 1: Battery Manufacturing Awareness	2	6	7
TOTAL			6	7

Total Qualification Time (TQT) and Guided Learning Hours (GLH)

Note: Values for Total Qualification Time, including Guided Learning Hours, are calculated by considering the different activities that learners would typically complete to achieve and demonstrate the learning outcomes of a qualification. They do not include activities which are required by a learner's teacher based on the requirements of an individual learner and/or cohort. Individual learners' requirements and individual teaching styles mean there will be variation in the actual time taken to complete a qualification. Values for Total Qualification Time, including Guided Learning, are estimates.

Some examples of activities which can contribute to Total Qualification Time include:

- independent and unsupervised research/learning
- unsupervised compilation of a portfolio of work experience
- unsupervised e-learning
- unsupervised e-assessment
- unsupervised coursework
- watching a pre-recorded podcast or webinar
- unsupervised work-based learning
- all guided learning.

Some examples of activities which can contribute to Guided Learning include:

- classroom-based learning supervised by a teacher
- work-based learning supervised by a teacher
- live webinar or telephone tutorial with a teacher in real time
- e-learning supervised by a teacher in real time
- all forms of assessment which take place under the immediate guidance or supervision of a lecturer, supervisor, tutor or other appropriate provider of education or training, including where the assessment is competence-based and may be turned into a learning opportunity.

Grading

This qualification is assessed as pass/fail.

Delivery and Assessment

Geographical Coverage

This qualification is regulated in England.

Use of Language

All learners must be assessed in English unless the qualification specification states that another language will be accepted.

Progression Opportunities

Following successful completion of this qualification, learners will have developed a basic understanding relevant to battery manufacturing environments. Learner may also be able to progress into further qualifications related to battery manufacturing and associated industries.

Assessment Guidance

All SIAS assessments will be accessible and produce results that are valid, reliable, transparent and fair.

Centres should have systems in place to verify a learner is ready to undertake their assessment.

Centres must ensure that no part of the assessment of a learner including internal quality assurance and invigilation, is conducted by anyone with a personal interest in the assessment outcome.

The SIAS Level 2 Award in Battery Manufacturing Awareness, contains the following unit.

Unit No.	Unit title
1	Battery Manufacturing Awareness

This unit is assessed as follows:

Unit	Set by	Marked by	Assessment Method	Pass Requirement	Grading
Unit 1	SIAS	SIAS	One MCQ examination. Duration: 30 minutes Number of questions: 16	68%	Pass/Fail
Overall Award	SIAS	SIAS	One MCQ examination	Unit 1 must be passed	Pass/Fail

Multiple-choice Question Examinations

Multiple-choice examinations as set out in the table above are externally set and marked by SIAS. These assessments are available online through the SIAS XAMS platform.

The multiple-choice examinations must be undertaken in controlled conditions. This means:

- learners must complete the assessment unaided
- books and other training aids must not be accessed by the learners
- all assessments must be invigilated to maintain authenticity and security.

Resits and retakes

Learners who fail to achieve a pass will be permitted to retake the assessment in accordance with the table below:

Assessment Type	Resit Arrangements
Multiple Choice Test	A resit can be taken up to two times.

Learners may only seek a resit for any previously failed assessment.

ID requirements

It is the responsibility of the centre to have systems in place to ensure that the person taking an assessment is the person they are claiming to be. All centres are therefore required to ensure that each learner's identification is checked before they undertake the assessment.

SIAS recommends the following as proof of a learner's identity:

- a valid passport (any nationality)
- a photocard driving licence
- another photographic ID card, e.g. employee ID card, student ID card, travel card etc.

Centre Requirements

All SIAS centres must be approved by SIAS to deliver the qualification(s) they wish to offer. This is to ensure centres have the processes and resources in place to deliver the qualification(s). Further information can be found in the SIAS Centre Handbook.

When a centre applies to offer a qualification, they will need to provide evidence that they have sufficient resources and infrastructure in place for delivery of that qualification:

- evidence of trainer competence and knowledge
- details of available resources.

For the SIAS Level 2 Award in Battery Manufacturing Awareness, centres are responsible for ensuring that their staff:

- are occupationally competent and/or knowledgeable in the role they are carrying out
- have current experience appropriate to the role they are carrying out.
- have access to appropriate training and support.

Information regarding the induction and continuing professional development must be made available to SIAS by centres through the external quality assurance process.

Tutor/Trainer requirements

For the SIAS Level 2 Award in Battery Manufacturing Awareness tutors/trainers are required to demonstrate they:

- have relevant occupational knowledge and competence
- hold a recognised education and training qualification or have equivalent training experience
- have completed recent, relevant CPD activities for the subject area.

Evidence includes:

- CV and relevant occupational qualifications and experience.
- Up-to-date CPD record including certification from any courses attended.

SIAS recommends as best practice for tutors/trainers to hold or be working towards a relevant education and training qualification. This includes:

- Level 3 Award in Education and Training or equivalent including Preparing to Teach in the Lifelong Sector (PTLLS), CertEd/PGCE, L4 Certificate in Education and Training, L5 Diploma in Education and Training.

Where this is not the case, SIAS will look at alternative sources of evidence for training competence, such as professional qualifications, relevant work experience or internal training records. For further guidance, please contact us.

Continuing Professional Development (CPD)

Centres are expected to support their staff, ensuring that their subject knowledge remains current and is up to date with best practice in delivery.

Quality Assurance Guidance

All SIAS qualifications require centres to have in place a robust mechanism for the quality assurance of training delivery and invigilated assessment arrangements.

External Quality Assurance

External quality assurance will be undertaken by SIAS. Centres will be required to provide documentation and other evidence to support this process upon request. Please refer to our Centre Handbook for further details.

Equality and Diversity

Delivery of any SIAS qualifications must comply with equality and diversity legislation. Learners should not experience any barriers to achievement in respect of:

- age
- disability
- gender
- gender reassignment
- marriage and civil partnerships
- pregnancy and maternity
- race
- religion and belief
- sexual orientation.

Reasonable Adjustments and Special Considerations

Reasonable adjustments and special considerations are made in assessments for learners with disabilities, specific needs or other extenuating circumstances to ensure they are not disadvantaged in any way. Requests for reasonable adjustments and special considerations must be made according to the SIAS Reasonable Adjustments and Special Consideration Policy.

Health and Safety

SIAS are committed to ensuring the safety and wellbeing of learners. Due to the nature of some of the sectors SIAS work in, there can be a high level of risk which we expect centres to manage effectively. Centres must take appropriate measures to assess and manage these risks and implement procedures so that qualifications are delivered safely, minimising risks to learners and those involved in the assessment process as much as possible. Working environments must comply with all required health and safety standards.

Qualification Content

Unit 1: Battery Manufacturing Awareness

Unit Reference	J/652/2376	
Level	2	
GLH	6	
Aim	This unit provides learners with an introductory awareness of common battery cell formats and their qualities. It also explores the main components of a lithium-ion battery cell, and the main functions of those components. This unit also introduces the main stages of the battery cell manufacturing process, and the concepts of sustainability and traceability.	
Assessment Methodology	Multiple Choice Question Examination	
Learning Outcomes <i>The learner will:</i>	Assessment Criteria <i>The learner can:</i>	
1. Know common battery cell formats and their uses.	1.1	Identify common battery cell formats and their typical uses.
	1.2	Identify the strengths and limitations of different battery cell formats.
2. Know the main components of a lithium-ion battery cell and their functions.	2.1	Identify the main components of a lithium-ion cell.
	2.2	State the basic function of the main components of a lithium-ion cell in storing and releasing electrical energy.
3. Know the key features of the industrial battery cell manufacturing process.	3.1	Sequence the key stages in the battery cell manufacturing process from materials preparation to final testing.
	3.2	Identify the purpose of key stages in the battery cell manufacturing process.
	3.3	Identify key safe handling considerations in the battery cell production process.
4. Know the key sustainability and traceability factors in battery manufacturing.	4.1	Identify key sustainability and traceability factors in battery manufacturing.

Resources

SIAS provides the following additional resources for this qualification:

- Centre Qualification Guide
- Qualification Learner Logbook
- Sample Assessment Material
- Externally Set Assessments.

Further Information

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

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