



Level 3 Certificate in

# Standby Battery Systems

# ENGINEERING

## Qualification Specification

### Overview

This Qualification has been developed in consultation with industry and training provider to ensure that it meets the needs of employers and learners. The qualification has huge potential benefits for those engaging with standby battery systems across energy, communication and information technology sectors.

### Typical Job

Those who are or aspire to be, an engineer within the energy, communication or information technology sector those who operate, maintain, design or commission standby battery systems; those who wish to formalise their experience of operating, maintaining, designing or commissioning standby battery systems.

Qualification code:	601/1879/9
Level:	3
Total qualification time:	158
Credit value:	Min 15 - Max 27
Guided learning hours:	Min 74 - Max 115
Minimum learning age:	19

Issue 1.0

## Purpose of qualification

The EAL Level 3 Certificate in Standby Battery Systems is a Vocationally Related Qualification (VRQ) which sits on the Regulated Qualification Framework (RQF) and it has been approved by Semta, the Sector Skills Council (SSC). The qualification focuses on the knowledge, understanding and, where appropriate, the practical skills associated with Standby Battery Systems. This arrangement ensures that when the learner completes the qualification they will have gained practical experience and expectation of some of the situations that they could face within the occupational sector in which it is being delivered.

It has been developed in consultation with industry and training provider to ensure that it meets the needs of employers and learners. The qualification has huge potential benefits for those engaging with standby battery systems across energy, communication and information technology sectors. This qualification does not require occupational evidence.

This is a graded qualification; learners can achieve a Pass, Merit or Distinction.

### What does this qualification cover?

Pathways SBSA: Standby Battery:

- Two mandatory core unit
- Four optional unit from Group A

The qualification pathway has **15 credits, 74 guided learning hours** and **158 Total Qualification Time**.

Pathway SBSB: Standby Battery Charger:

- Two mandatory core unit
- Two optional unit from Group B
- Two optional unit from Group C

The qualification pathway has **21 credits, 90 guided learning hours** and **211 Total Qualification Time**.

Pathways SBSC: Standby Battery Systems:

- Two mandatory core unit
- Six optional units from Group D

The qualification pathway has **27 credits, 115 guided learning hours** and **266 Total Qualification Time**.

It is suitable for learners aged:

- 19+

## Who supports this qualification?

This qualification is:

- accredited by Ofqual at Level 3,
- supported by Semta, the Sector Skills Council for the science, engineering and manufacturing technologies,
- developed with industry support.

## What could this qualification lead to?

### Typical job roles include:

Mechanical Fitter, Maintenance Engineer, Manufacturing Engineer, Electrical Engineer, Electronics Engineer, Sheet Metal Worker, CNC Operator, Welder.

This qualification relates to:

- EAL Level 2 Certificate in Engineering and Technology,
- EAL Level 2 Certificate in Maintenance Engineering Technology,
- EAL Level 2 NVQ Diploma in Engineering Maintenance and Installation,
- EAL Level 3 NVQ Diploma in Engineering Maintenance,
- EAL Level 3 NVQ Diploma in Installation and Commissioning.

Further information about apprenticeships and industry recognised qualifications in the engineering sector can be obtained from the EAL website.

## Entry requirements

Learners must be at least 19 years old. There are no formal entry requirements for this qualification. However, learners must have the potential to achieve all aspects of the qualification. In particular, learners should be able to demonstrate that they have the minimum levels of literacy and numeracy required to comply with the health and safety aspects of the scheme, the completion of the learning outcomes, and the assessments.

## How is the qualification achieved?

This qualification will be achieved when the learner has successfully completed:

Pathways SBSA: Standby Battery:

- Two mandatory core unit,
- Four optional unit from Group A.

Pathway SBSB: Standby Battery Charger:

- Two mandatory core unit,
- Two optional unit from Group B,
- Two optional unit from Group C.

## How is the qualification achieved?- continued

This qualification will be achieved when the learner has successfully completed:

Pathways SBSC: Standby Battery Systems:

- Two mandatory core unit,
- Six optional units from Group D.

## How will it be assessed?

This qualification is assessed by a series of externally set, internally marked (centre marked) assignments. The learner must pass all the internal assignments of their chosen units to achieve the qualification. EAL will Externally Quality Assure the assessment process. The EAL Centre Operations Manual must be followed in the delivery of assignments. Additional assignment guidance is provided in individual unit assessment delivery and guidance booklets.

Where the assessment takes the form of written/short answer or multiple choice question papers, these must be treated as controlled assessments.

All assessment decisions are then subject to internal and external quality assurance.

## What will be assessed?

This qualification is made up of units to which appropriate assessment methods have been applied. The units contain the learning outcomes and the assessment criteria that the learner is to be assessed against.

All learning outcomes within the qualification will be assessed. In order to meet this requirement, it is advised that centres should maintain an assessment and feedback record for each learner. This will detail the evidence evaluated against the learning outcome and the feedback given to the learner. All learner evidence must be available to the EAL External Quality Assurer.

## Grading Criteria

Learners must achieve a Pass in ALL components for the qualification to be awarded. If learners are unsuccessful in one or more of the assessment components then the overall result for the qualification will be 'referred' and a certificate will not be awarded.

Providing learners are successful in ALL assessment components, the final grade for the qualification will be determined from the grades achieved by learners in the external examination within the mandatory unit and the centre marked assessments within the optional units.

Please refer to the Grading Criteria within the Delivery Packs and Assessment Packs on how to grade individual units.

## Structure

### AL Level 3 Certificate in Standby Battery Systems

This qualification will be obtained by the learner once they have successfully completed the two mandatory core units and one of the following pathways:

#### Pathway SBSA: Standby Battery, Pathway SBSB: Standby Battery Charger, Pathway SBSC: Standby Battery systems

The qualification has a minimum 15 credits, 74 guided learning hours and 158 Total Qualification Time.

**Mandatory core unit** - TWO unit must be completed for ALL pathways:

Unit	Unit title	Credit	GLH	Ofqual Code
QSBS/001	Basic Health and Safety for Standby Battery Systems	1	5	L/505/7241
QSBS/002	Operational Health and Safety Awareness for Standby Battery Systems	2	12	J/505/7240

#### Pathway SBSA: Standby Battery

**Optional units: Group A** - FOUR unit must be completed:

Unit	Unit title	Credit	GLH	Ofqual Code
QSBS/003	Standby Battery System - Battery Technology and Application	1	5	R/505/7242
QSBS/004	Standby Battery System Design	6	30	Y/505/7243
QSBS/005	Standby Battery System Inspection and Maintenance	5	20	D/505/7244
QSBS/006	Standby Battery System Installation and Commissioning	6	25	M/505/7328
QSBS/007	Standby Battery System - Testing Load Autonomy and Rated Capacity	4	20	T/505/7329
QSBS/008	Standby battery System - Charger Principles	2	12	K/505/7330

#### Pathway SBSB: Standby Battery Charger

**Optional units: Group B** - TWO unit must be completed:

Unit	Unit title	Credit	GLH	Ofqual Code
QSBS/008	Standby battery System - Charger Principles	2	12	K/505/7330
QSBS/009	Standby Battery System - Charger Installation and Commissioning	6	25	M/505/7331
QSBS/010	Standby Battery System - Charger Fault Finding and Commission Testing	5	16	T/505/7332

#### Pathway SBSB: Standby Battery Charger: *continued*

**Optional units: Group B** - TWO unit must be completed:

Unit	Unit title	Credit	GLH	Ofqual Code
QSBS/004	Standby Battery System Design	6	30	Y/505/7243
QSBS/005	Standby Battery System Inspection and Maintenance	5	20	D/505/7244
QSBS/006	Standby Battery System Installation and Commissioning	6	25	M/505/7328

#### Pathway SBSC: Standby Battery systems

**Optional unit: Group D** - SIX unit must be completed:

Unit	Unit title	Credit	GLH	Ofqual Code
QSBS/003	Standby Battery System - Battery Technology and Application	1	5	R/505/7242
QSBS/004	Standby Battery System Design	6	30	Y/505/7243
QSBS/005	Standby Battery System Inspection and Maintenance	5	20	D/505/7244
QSBS/006	Standby Battery System Installation and Commissioning	6	25	M/505/7328
QSBS/007	Standby Battery System - Testing Load Autonomy and Rated capacity	4	20	T/505/7329
QSBS/008	Standby battery System - Charger Principles	2	12	K/505/7330
QSBS/009	Standby Battery System - Charger Installation and Commissioning	6	25	M/505/7331
QSBS/010	Standby Battery System - Charger Fault Finding and Commission Testing	5	16	T/505/7332

