

SIAS Qualification Specification

SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates

Qualification Number: 610/5283/8

Operational Start Date: 1st February 2025

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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 Qualification Specification is in use.

Version	Date	Comments
1.0	01/02/2025	First published
1.1	18/03/2026	Correction of assessment method for unit 5 on page 19

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 information 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 Certificate in the Fundamentals of Healthcare Estates
Qualification Number	610/5283/8
Credit Value	25
Guided Learning Hours (GLH)	128
Total Qualification Time (TQT)	180
Assessment Methods	Multiple-choice question examinations
Operational Start Date	1 February 2025
Review Date	31 January 2028
Operational End Date	-
Certification End Date	-
Regulation	This qualification is regulated by CCEA Regulation

Qualification Objective

The SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates is designed to develop the learner's knowledge and understanding in the maintenance of essential healthcare estates infrastructure. The qualification is aimed at individuals entering the healthcare estates sector. Following completion of the qualification, the learner will have a clear understanding of how to carry out the role of an operative within the sector.

Entry Requirements

This qualification is available for learners aged 16+.

There are no formal entry requirements for the SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates. 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.

Recognition of Prior Learning

Recognition of Prior Learning (RPL) is the process of recognising previous, informal or experiential learning which could contribute to a qualification or unit. 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 be awarded the SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates learners must achieve the following:

- All mandatory units contained within the tables below for the relevant pathway

Pathway: Knowledge Only					
Ofqual Unit reference	Mandatory Unit title	Level	Credit	GLH	TQT
K/651/4619	Principles of health, safety, and the environment within healthcare estates engineering	2	3	20	30
R/651/4620	Communication and teamwork within healthcare estates engineering	2	3	22	30
T/651/4621	Understand the healthcare engineering sector	2	6	42	60
Y/651/4622	Basic principles of healthcare estates maintenance	2	6	44	60
TOTAL			18	128	180

Pathway: Knowledge and Skills					
Ofqual Unit reference	Mandatory Unit title	Level	Credit	GLH	TQT
K/651/4619	Principles of health, safety, and the environment within healthcare estates engineering	2	3	20	30
R/651/4620	Communication and teamwork within healthcare estates engineering	2	3	22	30
T/651/4621	Understand the healthcare engineering sector	2	6	42	60
Y/651/4622	Basic principles of healthcare estates maintenance	2	6	44	60
A/651/4623	Carry out basic healthcare estates maintenance operations	2	7	52	70
TOTAL			25	180	250

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 practice
- 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 graded as a pass/fail.

Delivery and Assessment

Geographical Coverage

This qualification is regulated in Northern Ireland.

Use of Language

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

Progression Opportunities

Upon successfully completing this qualification, learners may progress to:

- Level 3 qualifications in healthcare estates engineering or related fields.
- Employment in entry-level roles within healthcare estates engineering.

- Apprenticeships in the healthcare estates engineering sector.

Assessment Guidance

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

The SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates contains two pathways. Each pathway contains mandatory units (see tables below).

To achieve the qualification, learners must successfully pass all assessments for the mandatory units.

Pathway: Knowledge Only			
Mandatory Unit Title	Assessment Method	Set by	Marked by
Principles of health, safety, and the environment within healthcare estates engineering	Externally set and marked multiple-choice question examination	SIAS	SIAS
Communication and teamwork within healthcare estates engineering	Externally set and marked multiple-choice question examination	SIAS	SIAS
Understand the healthcare engineering sector	Externally set and marked multiple-choice question examination	SIAS	SIAS
Basic principles of healthcare estates maintenance	Externally set and marked multiple-choice question examination	SIAS	SIAS

Pathway: Knowledge and Skills			
Mandatory Unit Title	Assessment Method	Set by	Marked by
Principles of health, safety, and the environment within healthcare estates engineering	Externally set and marked multiple-choice question examination	SIAS	SIAS
Communication and teamwork within healthcare estates engineering	Externally set and marked multiple-choice question examination	SIAS	SIAS

Understand the healthcare engineering sector	Externally set and marked multiple-choice question examination	SIAS	SIAS
Basic principles of healthcare estates maintenance	Externally set and marked multiple-choice question examination	SIAS	SIAS
Carry out basic healthcare estates maintenance operations	Portfolio of evidence	Centre	Centre

All assessment evidence for the centre assessed unit must be retained for a minimum of 3 years for audit purposes.

If a learner fails an assessment, they can be provided with opportunities to resit. Learners may only seek a resit for any previously failed assessment.

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.

Documentation to support the qualification assessment process can be accessed from the SIAS Pinnacle system.

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 staff competence and knowledge
- details of available resources

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

Both tutor/trainer and assessor roles may be performed by the same person providing that the qualification requirements for both roles are met.

For the SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates Qualification tutors/trainers are required to meet the following requirements:

- have relevant occupational knowledge and competence
- hold a recognised training qualification
- have completed recent, relevant CPD activities

Evidence includes:

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

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, assessment and quality assurance.

Assessor Requirements

Both tutor/trainer and assessor roles may be performed by the same person providing that the qualification requirements for both roles are met.

For the SIAS Level 2 Certificate in the Fundamentals of Healthcare Estates Qualification assessors are required to meet the following requirements:

- have relevant occupational knowledge and competence
- hold a recognised assessor qualification
- have completed recent, relevant CPD activities

Evidence includes:

- CV and relevant occupational qualifications and experience
- Level 3 Award in Assessing Vocationally Related Achievement or equivalent including A1, Award D32 and D33, L3 Award in Assessing Competence in the work Environment, L3 Certificate in Assessing Vocational Achievement
- Up-to-date CPD Record including certification from any courses attended

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.

Countersigning Strategy

Centres must have a properly qualified workforce; however, it is recognised that new staff members may be in the process of meeting these qualifications. In the interim, centres are required to establish a strong countersigning strategy to support and verify the decisions

made by unqualified personnel in assessment or quality assurance roles until they fulfil the necessary qualifications.

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 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

All learners must be treated fairly and equally and be provided with every opportunity to achieve our qualification(s). For more information or guidance, please refer to the SIAS Reasonable Adjustments Policy available on our website.

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, minimizing 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: Principles of health, safety, and the environment within healthcare estates engineering

Unit Reference	K/651/4619	
Level	2	
Credit Value (if applicable)	3	
GLH	20	
Aim	This unit aims to provide learners working in/towards a healthcare estates technician role with the knowledge required to work safely and comply with relevant legal and organisational health, safety and environmental requirements within healthcare estates.	
Assessment Methodology	Multiple-choice question examination	
Learning Outcomes <i>The learner will:</i>	Assessment Criteria <i>The learner can:</i>	
1. Understand fundamental health and safety regulations, standards and guidance relevant to healthcare estates engineering.	<p>1.1 Recognise key aspects of health and safety regulations in relation to healthcare estates engineering.</p> <p>1.2 Identify health and safety requirements in the clinical setting.</p> <p>1.3 Recognise the essential steps for conducting an effective risk assessment in the workplace.</p> <p>1.4 Identify health and safety warning signs and symbols commonly used in healthcare estates maintenance.</p> <p>1.5 Identify personal responsibilities to ensure compliance with health and safety regulations and requirements.</p> <p>1.6 Identify how to report health and safety concerns in the workplace.</p>	

<p>2. Understand environmental regulations and requirements within healthcare estates engineering.</p>	<p>2.1 Identify key environmental regulations and requirements within healthcare estates engineering.</p> <p>2.2 Recognise environmental signs and notices.</p> <p>2.3 Recognise how environmental regulations are used in healthcare estates engineering.</p> <p>2.4 Identify own responsibilities in relation to complying with environmental policies and procedures.</p>
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Unit 2: Communication and teamwork within healthcare estates engineering

Unit Reference	R/651/4620	
Level	2	
Credit Value (if applicable)	3	
GLH	22	
Aim	This unit aims to provide learners working in/towards a healthcare estates technician role with the knowledge to communicate effectively and professionally within healthcare estates, and to be able to work within a team.	
Assessment Methodology	Multiple-choice question examination	
Learning Outcomes <i>The learner will:</i>	Assessment Criteria <i>The learner can:</i>	
<p>1. Understand communication and teamwork within the workplace.</p>	<p>1.1 Recognise Communication techniques used within the workplace including:</p> <ul style="list-style-type: none"> • Verbal • Written • Electronic. <p>1.2 Recognise barriers in communication.</p> <p>1.3 Identify ways to overcome barriers in communication.</p>	

	<p>1.4 Identify engineering terminology used in healthcare estates.</p> <p>1.5 Identify the characteristics of an effective team.</p> <p>1.6 Identify own responsibilities when working as part of a team.</p>
<p>2. Understand the principles of equality, diversity, and inclusion in the workplace.</p>	<p>2.1 Define equality, diversity, and inclusion in the workplace.</p> <p>2.2 Identify different forms of discrimination and harassment.</p> <p>2.3 Recognise workplace responsibilities in respect of equality, diversity and inclusion.</p> <p>2.4 Identify protected characteristics in relation to equality, diversity and inclusion.</p> <p>2.5 Identify how to report instances of bullying or harassment in relation to self or others.</p>
<p>3. Understand the use of information technology within healthcare estates.</p>	<p>3.1 Recognise the purpose of different information technology used within healthcare estates.</p> <p>3.2 Identify work management systems used in the healthcare sector.</p>

Unit 3: Understand the healthcare engineering sector

Unit Reference	T/651/4621	
Level	2	
Credit Value (if applicable)	6	
GLH	42	
Aim	This unit aims to provide learners working in/towards a healthcare estates technician role with the underpinning knowledge of the healthcare engineering sector.	
Assessment Methodology	Multiple-choice question examination	
Learning Outcomes	Assessment Criteria	
<i>The learner will:</i>	<i>The learner can:</i>	
1. Understand the engineering function in the healthcare sector.	1.1 Recognise the roles and duties within the engineering function in the healthcare sector. 1.2 Identify different types of employers that work within the healthcare sector. 1.3 Recognise the supply chain within the engineering function. 1.4 Recognise the purpose of audits within the engineering function. 1.5 Identify stakeholder requirements and priorities. 1.6 Recognise why continuity of service is important to stakeholders. 1.7 Recognise the principles of clinical governance. 1.8 Recognise the benefits of clinical governance for patients and staff.	

<p>2. Understand technological development and innovation in the healthcare engineering sector.</p>	<p>2.1 Recognise examples of technological development and innovation in the healthcare engineering sector.</p> <p>2.2 Define the term Industry 4.0.</p> <p>2.3 Identify how IT networking is used in the healthcare engineering sector.</p>
<p>3. Understand engineering standards, regulations, statutory certificates, and Standard Operating Procedures relevant to the healthcare engineering sector.</p>	<p>3.1 Recognise standards and regulations relevant to the healthcare engineering sector, to include:</p> <ul style="list-style-type: none"> • British and European (BS-EN) engineering standards • Engineering certification completion (e.g. Gas, electric and OFTEC). <p>3.2 Identify what Standard Operating Procedures (SOPs) are.</p> <p>3.3 Recognise how SOPs are used in the healthcare engineering sector.</p>
<p>4. Understand healthcare engineering industry regulations and guidelines.</p>	<p>4.1 Identify the purpose of the Medicines and Healthcare Products Regulatory Agency (MHRA) Regulations.</p> <p>4.2 Recognise what Health Technical Memorandums (HTMs) are.</p>
<p>5. Understand the implications of working in a clinical environment.</p>	<p>5.1 Recognise the patient’s journey.</p> <p>5.2 Recognise the importance of patient:</p> <ul style="list-style-type: none"> • Safety • Dignity • Respect • Confidentiality

Unit 4: Basic principles of healthcare estates maintenance

Unit Reference	Y/651/4622	
Level	2	
Credit Value (if applicable)	6	
GLH	44	
Aim	This unit aims to provide learners working in a healthcare estates technician role to develop the knowledge to carry out basic maintenance work, including maintaining their own competence.	
Assessment Methodology	Multiple-choice question examination	
Learning Outcomes	Assessment Criteria	
<i>The learner will:</i>	<i>The learner can:</i>	
1. Understand installation, commissioning and decommissioning practices and techniques used within healthcare engineering.	1.1 Recognise engineering representations, drawings, and graphical information used in healthcare engineering. 1.2 Identify installation practices and techniques used within healthcare engineering. 1.3 Identify commissioning practices and techniques used in healthcare engineering. 1.4 Identify decommissioning practices and techniques used in healthcare engineering.	
2. Understand basic principles of engineering maintenance.	2.1 Recognise maintenance practices and techniques, to include: <ul style="list-style-type: none"> • planned • preventative • predictive • frequency • reactive. 2.2 Recognise fault finding and problem-solving techniques, to include: <ul style="list-style-type: none"> • diagnostics 	

	<ul style="list-style-type: none"> • troubleshooting • testing for minor faults. <p>2.3 Identify common causes of faults.</p> <p>2.4 Recognise repair practices and techniques.</p>
<p>3. Understand how to select, use and maintain machinery, tools and equipment required to perform engineering maintenance tasks.</p>	<p>3.1 Identify machinery, tools and equipment used to perform engineering maintenance tasks and their purpose.</p> <p>3.2 Recognise correct:</p> <ul style="list-style-type: none"> • use • maintenance • storage of tools, machinery and / or equipment to carry out engineering maintenance tasks.
<p>4. Understand the different types of documentation and their requirements in the engineering healthcare sector.</p>	<p>4.1 Recognise engineering maintenance documentation methods.</p> <p>4.2 Identify data protection requirements relevant to engineering maintenance documentation.</p> <p>4.3 Recognise the purpose of information governance.</p> <p>4.4 Recognise why it is important to remove patient identifiable data from records.</p> <p>4.5 Identify the purpose of manufacturer’s instructions and warranties.</p>

Unit 5: Carry out basic healthcare estates maintenance operations

Unit Reference	A/651/4623	
Level	2	
Credit Value (if applicable)	7	
GLH	52	
Aim	The aim of this unit is to provide learners with the skills to perform basic estates maintenance tasks within a healthcare setting.	
Assessment Methodology	Portfolio of evidence	
Learning Outcomes	Assessment Criteria	
<i>The learner will:</i>	<i>The learner can:</i>	
1. Be able to comply with health and safety legislation and regulations, and clinical restrictions.	1.1 Identify risks and hazards in the workplace. 1.2 Record identified risks and hazards. 1.3 Identify control measures to mitigate risks. 1.4 Apply control measures to mitigate risks. 1.5 Comply with health and safety regulations, legislation, and safe working practices. 1.6 Comply with clinical restrictions in work areas.	
2. Be able to comply with environmental and sustainability requirements.	2.1 Comply with statutory environmental and sustainability requirements. 2.2 Apply organisational environmental and sustainability procedures.	
3. Be able to use communication skills within healthcare estates.	3.1 Communicate with colleagues and stakeholders. 3.2 Negotiate with stakeholders. 3.3 Report on progress and issues or concerns where applicable.	

	3.4 Represent own employer in a professional manner.
4. Be able to work as part of a team.	<p>4.1 Use a range of team working techniques when collaborating with colleagues.</p> <p>4.2 Support colleagues to complete work and develop.</p> <p>4.3 Assess the implications of own actions on others in the team.</p>
5. Be able to carry out basic engineering maintenance.	<p>5.1 Follow standard operating procedures when conducting basic engineering maintenance.</p> <p>5.2 Read and interpret information in order to carry out engineering maintenance.</p> <p>5.3 Collect and record data.</p> <p>5.4 Apply maintenance practices and techniques.</p> <p>5.5 Test and check equipment and systems against quality and operational parameters.</p> <p>5.6 Follow relevant regulations, guidelines and protocols to ensure a safe working environment for:</p> <ul style="list-style-type: none"> • self • others. <p>5.7 Store tools and equipment.</p> <p>5.8 Follow manufacturers' instructions and procedures.</p> <p>5.9 Record work activity onto relevant systems and documentation.</p> <p>5.10 Restore the work area on completion of the maintenance activity.</p>

	5.11 Return resources and consumables.
6. Be able to maintain own competence in the Healthcare Estates Maintenance role.	6.1 Take part in continued professional development. 6.2 Keep up to date with developments in the engineering industry and healthcare sector.

Resources

SIAS provides the following additional resources for this qualification:

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

Please see below examples of sample assessment questions:

Sample Question 1

What do the letters in COSHH stand for?

- A. Control of Substances Hazardous to Health
- B. Control of Substances Harmful to Health
- C. Containment of Substances Hazardous to Health
- D. Containment of Substances Harmful to Health

Sample Question 2

What does the following pictogram mean?



- A. Oxidising
- B. Flammable
- C. Corrosive
- D. Explosive

Further Information

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

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