

SIAS Level 3

Extended Diploma for Healthcare Estates Engineering Technicians

SIAS

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.



Key Facts

Qualification Title	SIAS Level 3 Extended Diploma for Healthcare Estates Engineering Technicians
Qualification Number	610/6488/9
Credit Value	80
Guided Learning Hours (GLH)	493
Total Qualification Time (TQT)	800
Assessment Methods	<ul style="list-style-type: none">• Multiple choice question examinations (Units 1 to 4)• Short answer question examinations (Units 5 and 6)• Workbook (Unit 7)• Centre devised assessments (Units 8 to 15)
Operational Start Date	1 October 2025
Regulation	CCEA Regulation

Qualification Objective

The SIAS Level 3 Extended Diploma for Healthcare Estates Engineering Technicians equips learners with the knowledge and skills needed to work effectively as technicians in healthcare estates. It supports progression into employment or further training, covering areas such as health and safety, engineering maintenance, clinical environment practices, and regulatory compliance. The qualification develops understanding across mechanical, electrical, and mechatronic systems, while building core skills in communication, teamwork, and planning. Learners will gain experience with healthcare-specific systems and documentation to help maintain safe, efficient, and compliant estates.

Entry Requirements

This qualification is available for learners aged 16+.

There are no formal entry requirements for the SIAS Level 3 Extended Diploma for Healthcare Estates Engineering Technicians. 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 achieve the SIAS Level 3 Extended Diploma for Healthcare Estates Engineering Technicians learners must achieve all mandatory units contained in the table below:

Unit Reference	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
Y/651/7927	Healthcare engineering and clinical environment management	3	3	20	30
A/651/7928	Understand engineering principles including mechanical, electrical and mechatronics	3	5	30	50
D/651/7929	Understand estates systems and supplies (water, gas, and electrical)	3	9	60	90
J/651/7930	Understand machinery, tools and equipment and materials used in healthcare engineering	3	6	40	60
K/651/7931	Understand quality assurance and continuous improvement in engineering maintenance	3	3	15	30
L/651/7932	Understand engineering maintenance processes and documentation for healthcare settings	3	4	25	40
M/651/7933	Implement regulatory and procedural requirements within healthcare engineering	3	7	40	70
R/651/7934	Select and maintain tools and equipment within healthcare engineering	3	6	30	60
T/651/7935	Carry out healthcare engineering activities	3	9	50	90
Y/651/7936	Communication, Teamwork, and Knowledge Sharing in Healthcare Estates	3	4	25	40
A/651/7937	Plan, schedule and record engineering work activities	3	6	30	60
TOTAL			80	493	800

Grading

This qualification is graded as a pass/fail.

Assessment Methods

To achieve the qualification, learners must successfully pass all assessments:

Unit	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
Healthcare engineering and clinical environment management	Externally set and marked short answer question examination	SIAS	SIAS
Understand engineering principles including mechanical, electrical and mechatronics	Externally set and marked short answer question examination	SIAS	SIAS
Understand estates systems and supplies (water, gas, and electrical)	Externally set and internally marked workbook	SIAS	Centre
Understand machinery, tools and equipment and materials used in healthcare engineering	Centre devised	Centre	Centre
Understand quality assurance and continuous improvement in engineering maintenance	Centre devised	Centre	Centre
Understand engineering maintenance processes and documentation for healthcare settings	Centre devised	Centre	Centre
Implement regulatory and procedural requirements within healthcare engineering	Centre devised	Centre	Centre
Select and maintain tools and equipment within healthcare engineering	Centre devised	Centre	Centre
Carry out healthcare engineering activities	Centre devised	Centre	Centre
Communication, Teamwork, and Knowledge Sharing in Healthcare Estates	Centre devised	Centre	Centre
Plan, schedule and record engineering work activities	Centre devised	Centre	Centre

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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