



AIMQUALIFICATIONS

Level 4 Certificate in Medical Equipment Technologies

Qualification Number: 603/2229/9



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1. About this qualification

The AIM Qualifications Level 4 Certificate in Medical Equipment Technologies supports individuals to develop their skills, knowledge and understanding of medical technologies. Working towards achievement of the qualification provides learners with the opportunity to build on existing engineering skills while simultaneously developing new areas of expertise and knowledge applicable to the medical equipment technologies sector.

Centres offering this qualification will be able to provide information to learners about possible membership of the Institute of Healthcare Engineering and Estates Management (IHEEM) while undertaking a course of study leading to the award of this qualification.

Objectives of the qualification

Depending on the context of the learning and the needs of each individual learner, the qualification can:

- prepare individuals to progress to a qualification in the same subject area but at a higher level such as the Level 5 Diploma in Medical Equipment Technologies or requiring more specific knowledge, skills and understanding;
- prepare learners for employment;
- support a role in the workplace.

The qualification is designed to enable the learners to:

- be able to apply circuit analysis using various techniques;
- solve practical problems in a medical engineering scenario;
- demonstrate understanding of human anatomy.

It is a requirement that assessment of this qualification is conducted in English.

The AIM Qualifications Level 4 Certificate in Medical Equipment Technologies is accredited by Ofqual.

Guided Learning Hours (GLH)

Guided Learning Hours are defined as the number of hours of supervised or directed study time required for a unit or a qualification. Some learners will be able to achieve units and qualifications in a shorter time than indicated. Others, for example those with additional support requirements, may need longer.

Total Qualification Time (TQT)

Total qualification time is defined as the number of guided learning hours (GLH) plus the time taken by the learner for private study or work experience.

Guided learning hours and total qualification time for this qualification is:

Level 4 Certificate

GLH: 252 hours

TQT: 340 hours

2. Learner requirements

Entry requirements

The learner must be:

- Working towards a medical engineering role
- either working towards or hold a nationally recognised level 3 qualification in a related subject
- hold English and Maths GCSEs at grade C or above, or equivalent.

Minimum age

The minimum age for access to this qualification is 18 years.

Reasonable Adjustment and Special Considerations

Assessment within the AIM Qualifications Level 4 Certificate in Medical Equipment Technologies qualification is designed to be accessible and inclusive. The assessment methodology is appropriate and rigorous for individuals or groups of learners.

3. Achieving the qualification

Rules of combination

Centres are responsible for ensuring that learners are able to achieve the qualification for which they are aiming. Centres must ensure that the following rules of combination that apply to each qualification are met.

To be awarded the AIM Qualifications Level 4 Certificate in Medical Equipment Technologies, learners must achieve all 34 credits within the Mandatory Group M.

Unit achievement

All of the assessment criteria in a unit must be met before the unit is deemed to be achieved. The unit achievement is not graded: units are either achieved or not achieved.

Recording achievement

You must record the learner's achievement of each unit on an appropriate form(s). You should record the learner's achievement against the specific units assessment criteria evidenced by the task.

4. The units

Mandatory Group M

Title	Level	Credit	GLH	TQT	Unit code	Unit reference number
Electrical and Electronic Science for Medical Engineers	4	8	70	80	XN1/4/NQ/001	A/506/7800
Human Anatomy and Physiology	4	8	60	80	RH4/4/NQ/002	L/507/1933
Mathematics for Engineering Technicians	3	10	60	100	RB1/3/NQ/001	A/507/2852
Mechanical Engineering Science for Medical Engineers	4	8	62	80	XH1/4/NQ/001	R/506/7804

Level descriptors

The level of the units within this qualification are linked to the latest QCF level descriptors published by Ofqual.

Level	Knowledge Descriptor (the holder...)	Skills Descriptor (the holder can...)
Level 3	<p>Has factual, procedural and theoretical knowledge and understanding of a subject or field of work to complete tasks that while well-defined, may be complex and non-routine.</p> <p>Can interpret and evaluate relevant information and ideas.</p> <p>Is aware of the nature of the area of study or work.</p> <p>Is aware of different perspectives or approaches within the area of study or work.</p>	<p>Identify, select and use appropriate cognitive and practical skills, methods and procedures to address problems that while well-defined, may be complex and non-routine.</p> <p>Use appropriate investigation to inform actions.</p> <p>Review how effective methods and actions have been.</p>

Extracted from 'After the QCF A New Qualification Framework' October 2015

5. Assessment

This qualification requires achievement of the specified units with no further requirements for additional/summative assessment. Achievement is therefore determined by successful completion of unit assessment. Additional assessment guidance can be found on each unit specification where required under the heading Assessment Guidance. The assessment process is as follows:

- Assessments are internally set against the requirements detailed in the assessment criteria of the unit, and approved by the Internal Quality Assurer (IQA).
- Assessments are internally set and approved at the centre by assessors, against the requirements detailed in the assessment criteria of the unit.
- The learners are assessed internally at the centre, using the assessments set.
- The resulting portfolios of assessed evidence are internally quality assured by an Internal Quality Assurer (IQA) at the centre.

Assessment methods

When delivering AIM Qualifications units and qualifications, centres may choose from a range of assessment methods. It is important that the most effective and appropriate methods are selected. We therefore strongly advise that all those involved in assessment and internal quality assurance of this qualification refer to the *AIM Qualifications Centre Handbook* and our *Assessment Methods* publication. These provide guidance on the range of assessment methods available and the types of evidence appropriate for each. These publications are available on our website.

It is important when devising assessments to differentiate between the assessment method (what the learner is asked to do) and the evidence (what the learner produces).

When designing any assessment method, tutors or assessors will need to consider the presentation of the assessment task to the learner to make it fair and accessible. Tutors or assessors may also need to consider arrangements for learners with particular learning difficulties and will need to be aware of AIM Qualifications' policy on reasonable adjustments.

All proposed assessment tasks must be checked and confirmed as appropriate, fair, valid and reliable by an appropriately qualified and experienced Internal Quality Assurer (IQA) before being issued to learners.

6. Offering the qualification

Support for centres

AIM Qualifications provide all of our centres with on-going support and advice on the use of AIM Qualifications units and qualifications, including the requirements for assessment.

Centre responsibilities

Each centre should identify a centre contact who will be responsible for AIM Qualifications provision within the centre.

The centre contact must ensure all procedures relating to the delivery of the qualification operate effectively in the centre.

The centre contact is the person responsible for confirming and ensuring that the centre meets all the AIM Qualifications requirements for centre recognition.

The centre contact is responsible for ensuring all relevant AIM Qualifications documentation is distributed as required within the centre and that the security requirements for external assessment are adhered to, where applicable.

The information provided in this qualification specification is accurate at the time of publication but is subject to change. AIM Qualifications will occasionally update qualification information, so please refer to the 'AIM Qualifications' page of our website to view any updates, including qualification end dates and the latest versions of our qualification specifications.

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