

Qualification specification

NCFE Level 1/2 Technical Award in Health and Fitness

QN: 603/7007/5

Qualification summary

Qualification title	NCFE Level 1/2 Technica	al Award in Health and Fit	ness
Ofqual qualification number (QN)	603/7007/5	Aim reference	60370075
Guided learning hours (GLH)	144	Total qualification time (TQT)	158
Minimum age	14		>
Qualification purpose	This qualification is part of a suite of technical award qualifications that have been developed to meet the Department for Education's (DfE's) requirements for high-quality, rigorous qualifications that: • have appropriate content for the learner to acquire core knowledge and practical skills • allow the qualification to be graded • provide synoptic assessment • enable progression to a range of study and employment opportunities		
Grading	Level 1 pass/merit/distinction Level 2 pass/merit/distinction/distinction*		
Assessment method	Externally-set: non-exam assessment (NEA) and an examined assessment (EA)		
Performance points	Please check with the DfE for the most up-to-date information, should there be any changes		

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Section 1: introduction

Please note this is a draft version of the qualification specification and is likely to be subject to change before the final version is produced for the launch of the qualification.

If you are using this qualification specification for planning purposes, please make sure that you are using the most recent version.

Aims and objectives

This qualification aims to:

- focus on the study of the health and fitness sector
- offer breadth and depth of study, incorporating a key core of knowledge
- provide opportunities to acquire a number of practical and technical skills

The objectives of this qualification are to:

- develop a broad understanding of the structure and function of body systems
- identify factors that influence child development
- identify the effects of health and fitness activities on the body
- understand health and fitness and the components of fitness
- apply the principles of training
- understand the impact of lifestyle on health and fitness
- test and develop components of fitness
- apply health and fitness analysis and set goals
- plan, develop and take part in a health and fitness programme and understand how to prepare safely

Support handbook

This qualification specification must be used alongside the mandatory support handbook on the qualifications page on the NCFE website, which contains additional supporting information to help with the planning, delivery and assessment.

This qualification specification contains all of the qualification-specific information you will need that is not covered in the support handbook.

Entry guidance

This qualification is designed for learners aged 14 to 16 in schools and colleges, but is also accessible for post-16 learners.

It is a vocational qualification equivalent to GCSE grades 8.5 to 1.

There are no specific prior skills/knowledge a learner must have for this qualification.

Entry is at the discretion of the centre.

Centres are responsible for ensuring that all learners are capable of achieving the learning outcomes and complying with the relevant literacy, numeracy and health and safety requirements.

Learners registered on this qualification should not undertake another qualification at the same level, or with the same/a similar title, as duplication of learning may affect funding eligibility.

Achieving this qualification

To be awarded this qualification, learners are required to successfully achieve all learning outcomes from the single graded mandatory unit.

Qualification title		NCFE Level 1/2 Technical Award in Health and Fitness		
Qualification numb	er (QN)	603/7007/5		
Level	•	Combined level 1/2		
Guided learning hours (GLH) (Total GLH has been rounded up to the nearest hour)		144		
GLH breakdown		 120 hours delivery 1 hour 30 minutes examined assessment 22 hours non-exam assessment 		
Non-exam Weighting assessment (60%)		Externally-set, internally marked and externally moderated: • synoptic project		
Examined Weighting assessment (EA) (40%)		Externally-set and externally marked: written exam		
Total	100% Overall qualification grades: L1P, L1M, L1D, L2P, L2M, L2D, L2D*			

Please refer to the content area summaries in section 2 for further information.

To achieve this qualification, learners must successfully demonstrate their achievement of all learning outcomes of the units as detailed in this qualification specification.

Progression

Depending on the grade the learner achieves in this qualification, they could progress to level 2 and level 3 qualifications and/or GCSE/A Levels.

Learners who achieve at level 1 might consider progression to level 2 qualifications post-16, such as:

- GCSE in Physical Education
- study at level 2 in a range of technical routes that have been designed for progression to employment, apprenticeships and further study, examples might include Level 2 Technical Certificates in:
 - Sport and Physical Activity
 - Sport and Activities Leaders
 - Exercise and Fitness Instruction
 - Exercise and Fitness Instruction for Wellbeing
 - Coaching Sport and Instructing Physical Activities
 - Physical Activity and Exercise Science

Technical certificate qualifications provide post-16 learners with the knowledge and skills they need for skilled employment or for further technical study.

Learners who achieve at level 2 might consider progression to level 3 qualifications post-16, such as:

Level 3 Applied Generals in:

- Sport Studies
- Sport and Physical Activity
- Sports Performance and Excellence
- Sport and Exercise Science
- Level 3 Technical Levels in:
 - Sport and Physical Activity
 - Personal Training
 - Personal Training and Behaviour Change
 - o Fitness Services
 - Exercise Science and Personal Training
 - Personal Training for Health, Fitness and Performance
 - Physical Activity and Exercise Science
- A Level in Physical Education and Sport (this will support progression to higher education)

Learners could also progress into employment or onto an apprenticeship. The understanding and skills gained through this qualification could be useful to progress onto an apprenticeship in the health and fitness sector through a variety of occupations that are available within the sector, such as health assistants, fitness instructors or personal trainers.

Staffing requirements

There are no additional staffing requirements for this qualification. See staffing requirements section in the support handbook.

Resource requirements

There are no mandatory resource requirements for this qualification, but centres must ensure learners have access to suitable resources to enable them to cover all the appropriate learning outcomes.

Real work environment requirement/recommendation

This is a knowledge-only qualification. Experience in the real work environment is not required.

Work/industry placement experience

This is a knowledge-only qualification. Work/industry placement experience is not required.

Purpose statement

Who is this qualification for?

The Level 1/2 Technical Award in Health and Fitness is designed for learners who want an introduction to health and fitness that includes a vocational and project-based element. The qualification will appeal to learners who wish to pursue a career in the health and fitness sector or progress onto further study.

The NCFE Level 1/2 Technical Award in Health and Fitness (603/7007/5) complements GCSE qualifications. It is aimed at 14 to 16 year olds studying key stage 4 (KS4) curriculum who are interested in the health and fitness sector. This qualification is designed to match the rigour and challenge of GCSE study. The qualification is graded at level 1 pass, merit, distinction and level 2 pass, merit, distinction and distinction* (equivalent to GCSE grades 8.5 to 1). More information on grading can be found in section 2 of this qualification specification.

This qualification focuses on an applied study of the health and fitness sector and learners will gain a broad knowledge and understanding of working in the sector.

This qualification has been designed to sit alongside the requirements of core GCSE subjects and is appropriate for learners who are motivated and challenged by learning through hands-on experiences and through content that is concrete and directly related to those experiences.

It is distinct from GCSE Physical Education, as it encourages the learner to use knowledge and practical tools to focus on supporting people with specific health and fitness goals.

The study of health and fitness involves understanding the functions of the body systems, understanding the principles of training, knowing how the body reacts in the short and long-term to fitness activities, how to create and apply lifestyle analysis tools and how to create a fitness programme for a person with specific goals.

This level 1/2 qualification is appropriate for learners who are looking to develop a significant core of knowledge and understanding in health and fitness and apply that knowledge through a project.

What will the learner study as part of this qualification?

This qualification will promote the learner's understanding of:

- the structure and function of body systems
- · the effects of health and fitness activities on the body
- health and fitness and the components of fitness
- the principles of training
- the impact of lifestyle on health and fitness
- testing and developing components of fitness
- health and fitness analysis and setting goals
- planning, developing and taking part in a health and fitness programme and understanding how to prepare safely

What knowledge and skills will the learner develop as part of this qualification and how might these be of use and value in further studies?

Learners will develop the following knowledge and skills:

- adapting their own ideas and responding to feedback
- evaluating their own work
- analysing data and making decisions
- skills that are essential for the health and fitness sector, such as fitness evaluation skills, responding to health data, independent working, working to deadlines and efficient use of resources
- an ability to reflect upon their preferred learning style and identify relevant study skills

Successful completion of this qualification will enable learners to progress to level 2 or 3 qualifications in related subjects.

The knowledge and skills gained will provide a secure foundation for careers in the health and fitness industry.

Learners will develop the following skills that will inform future training and work in the health and fitness sector:

- decision making
- observation
- resourcefulness
- problem solving
- planning
- evaluation
- reflection
- interpersonal skills
- professional behaviours
- respect and appreciation of others
- an ability to reflect upon their preferred learning style and identify relevant study skills

Successful completion of this qualification will enable learners to progress to level 2 or 3 qualifications in related subjects.

The knowledge and skills gained will provide a secure foundation for learners to progress into career opportunities in the health and fitness sector and provide a valuable platform for further study.

Which subjects will complement this course?

The following subject areas will complement this course:

- food preparation and nutrition
- maths
- English
- science

This list is not exhaustive, and a range of other subject areas may also be appropriate.



How the qualification is assessed

Assessment is the process of measuring a learner's skill, knowledge and understanding against the standards set in a qualification.

The qualification has **2** assessments externally-set by NCFE: **one** non-exam assessment and **one** written examined assessment.

	Non-exam assessment				
Assessment method	Description				
Non-exam assessment	60% of the technical award				
Externally-set	88 marks				
Internally marked and externally moderated	The completion time for the non-exam assessment is 22 hours.				
	The non-exam assessment will assess the learner's ability to effectively draw together their knowledge, understanding and skills from across the whole vocational area. The non-exam assessment will target assessment objectives (AO) AO1, AO2, AO3, AO4 and AO5.				
Non-exam assessment availability	The learner should not undertake the non-exam assessment until all content areas have been delivered. This is to ensure learners are in a position to complete the non-exam assessment successfully.				
	A different non-exam assessment brief will be released every September.				

Non-exam assessment

Non-exam assessment encourages the learner to combine elements of their learning and to show accumulated knowledge and understanding across the content areas.

Non-exam assessment enables the learner to show their ability to integrate and apply knowledge, understanding and skills with breadth and depth. It also requires them to demonstrate their capability to apply knowledge, understanding and skills across a range of units and learning outcomes that are being assessed.

The non-exam assessment is internally assessed work and should be completed by the learner in accordance with the qualification specification. Information on delivery guidance and assessment hours for the internal assessment will be available in the non-exam assessment brief. To support with this, we have also created a sample non-exam assessment brief, which is available on the qualification page under support materials. A representative number of assessment hours should be timetabled into the scheme of work. Internal assessment hours must be administered outside of scheduled teaching and learning hours and should be supervised and assessed by the teacher.

Any work submitted for internal assessment must be completed during scheduled assessment hours in accordance with the scheme of work and must be authenticated and attributable to the learner. The teacher must be satisfied that the work produced is the learner's own and the learner must declare that the work is their own.

In practice, this means that all of the non-exam assessment will be completed in normal class time within scheduled assessment hours and kept separate from any teaching and learning hours.

The internally assessed non-exam assessment component is based on coverage of the qualification content areas, which are assessed holistically against descriptors to achieve a grade.

Each learner must create a portfolio of evidence generated from appropriate assessment tasks that demonstrates achievement of all the learning outcomes associated with each unit. The assessment tasks should allow the learner to respond to a real-life situation that they may face when in employment. On completion of each unit, learners must declare that the work produced is their own and the assessor must countersign this. Examples of suitable evidence for the portfolio for each unit are provided in section 2.

	Examined assessment
Assessment method	Description
Examined assessment	40% of technical award
Externally-set	Written examination:
Written examination	80 marks
	1 hour 30 minutes
Externally marked	a mixture of multiple choice, short answer, and extended response questions
	The written examined assessment is a terminal assessment and will
	assess the learner's knowledge and understanding of all content areas
	and target assessment objectives AO1, AO2 and AO3.
Examined assessment availability	The examination date is expected to take place in May/June every year
	Please refer to the external assessment timetable available on the NCFE website.

Examined assessment

Examined assessments are set and marked by NCFE. The assessment assesses learners' knowledge and understanding of the content areas of this qualification. Centres must not assess, internally quality assure, or otherwise access or review any examined assessment materials or learner responses at any time and must adhere to the required exam regulations at all times.

The examined assessment is on a set date and time (invigilated). NCFE specifies the date and time that the examined assessment must be administered in the centre and also publishes in advance the dates on which external assessment results will be released.

A variety of assessment questions will be used, including multiple-choice, short-answer and extended response questions. This will enable learners to demonstrate their breadth of knowledge and understanding of the subject and ensure achievement at the appropriate level, including stretch and challenge. Questions will be written in plain English and in a way that is supportive and accessible to learners of all abilities.

As far as possible, real-world case studies and contexts that are relevant to the sector will be used. This is to engage and stimulate learners under examination conditions and to facilitate the drawing-out of a wide range of knowledge and skills developed throughout their learning.

All questions will have available marks clearly identified. The examined assessment will be carefully constructed following a rigorous quality control process to ensure that the assessment is valid.

For further information including instructions for conducting an external assessment, centres must ensure they have read/are familiar with the regulations for the conduct of external assessment, and qualification specific instructions for delivery documents available on the policies and documents page on the NCFE website.

The examined assessment material will be sent out in time for the start of the assessment. Assessment materials must be kept secure at all times in line with the requirement of the regulations for the conduct of external assessment.

You must return all examined assessment materials and partially or fully completed learner work to NCFE within one working day of the examined assessment taking place or the final timetabled supervised/invigilated session.

Rationale for synoptic assessment

Synoptic assessment encourages the learner to combine elements of their learning and to show accumulated knowledge and understanding across units and/or learning outcomes.

Synoptic assessment enables the learner to show their ability to integrate and apply knowledge, understanding and skills with breadth and depth. It also requires them to demonstrate their capability to apply knowledge, understanding and skills across a range of units and learning outcomes that are being assessed.

Enquiries about results

All enquiries relating to learners' results must be submitted in line with our enquiries and appeals about results and assessment decisions policy, which is available on the policies and documents page on the NCFE website.

External assessment conditions

For more information on external assessment conditions, please see the regulations for the conduct of external assessments and qualification specific instructions for delivery on the policies & documents page on the NCFE website.

There is one assessment window during the year. Please refer to the external assessment timetable on the NCFE website for the specific date.

For instructions on conducting external assessments, please refer to our regulations for the conduct of external assessments and qualification specific instructions for delivery documents, available on the policies & documents page on the NCFE website.

Assessment windows

For assessments sat in windows, the centre must enter learners to the specified window. This will be either a set date and time assessment or a window in which the assessment will be completed.

For qualifications with 'entry on registration', the centre will choose the assessment window at the point of registering the learner. The last date that we will accept learner work for a specified assessment window is by that assessment window's cut-off date.

Please note: the 'cut-off date' is the last day that returned scripts will be accepted for the specified assessment window.

On completing their work at the end of the assessment window, learners must sign the assessment declaration to authenticate the work produced as their own. Centres must ensure that all assessments are submitted for marking in accordance with the assessment windows.

Scheme of assessment

The Level 1/2 Technical Award in Health and Fitness qualification is made up of 2 component parts: an examined assessment (EA) and a non-exam assessment (NEA).

Assessments	Assessment time	% weighting	Raw marks	Scaling factor	Scaled marks*	Assessment conditions	Marking
Non-exam assessment (NEA)	22 hours	60%	88	1.364	120	Supervised	Internal, with external moderation
Examined assessment (EA)	1 hour 30 minutes	40%	80	1.000	80	Invigilated	External
Assessment total	23 hours 30 minutes	100%			200		

Assessment objectives

The assessment of our technical awards is mapped against assessment objectives (AOs). These AOs provide a consistent framework for learners and are applied synoptically, allowing learners to show their knowledge, understanding and skills from across the full breadth and depth of the qualification.

The AOs that will be assessed against the content in our technical awards are:

AO1	Recall knowledge and show understanding
	The emphasis here is for learners to recall and communicate the fundamental elements of
	knowledge and understanding.
AO2	Apply knowledge and understanding
	The emphasis here is for learners to apply their knowledge and understanding to real-world
	contexts and novel situations.
AO3	Analyse and evaluate knowledge and understanding
	The emphasis here is for learners to develop analytical thinking skills to make reasoned
	judgements and reach conclusions.
AO4	Demonstrate and apply relevant technical skills, techniques and processes
	The emphasis here is for learners to demonstrate the essential technical skills relevant to the
	vocational sector by applying the appropriate processes, tools and techniques.
AO5	Analyse and evaluate the demonstration of relevant technical skills, techniques and
	processes
	The emphasis here is for learners to analyse and evaluate the essential technical skills,
	processes, tools and techniques relevant to the vocational sector.

Assessment objective weightings

The table below shows the approximate weightings for each of the AOs in the technical award assessments.

AOs	Non-exam	Examined	Overall weighting (%)
	assessment (%)	assessment (%)	
AO1	7%	40–45%	20.2–22.2%
AO2	17%	35–40%	24.2–26.2%
AO3	23.5%	20–25%	22.1–24.1%
AO4	36%	N/A	21.6%
AO5	16.5%	N/A	9.9%
Overall weighting of	60%	40%	100%
assessments			

The purpose of the qualification means that it is necessary to assess understanding through 2 means of assessment, an internal non-exam assessment (NEA) and an external examined assessment (EA). The variance in assessment methods used allows for a range of knowledge, understanding and skills to be assessed using the most fit-for-purpose method.

Non-exam assessment

Refer to the mark scheme for the current non-exam assessment where you will find the information required to mark the non-exam assessment tasks and their descriptors.

Centres will mark the non-exam assessment, and this will then be submitted to NCFE for moderation.

Examined assessment

The examined assessment will be submitted to NCFE for marking to calculate the overall grades for learners.

Overall grading descriptors

To achieve a level 2 distinction learners will be able to:

- recall and apply highly relevant knowledge and understanding in an excellent and highly
 comprehensive manner of the functions of the body systems, understanding the principles of
 training, knowing how the body reacts in the short and long-term to fitness activities, how to create
 and apply lifestyle analysis tools and how to create a fitness programme for a person with specific
 goals
- critically analyse and evaluate, to make excellent reasoned judgements and reach conclusions on the functions of the body systems, understanding the principles of training, knowing how the body reacts in the short and long-term to fitness activities, how to create and apply lifestyle analysis tools and how to create a fitness programme for a person with specific goals
- safely and effectively demonstrate essential and excellent skills, techniques and processes, relevant to the sector, when using a wide range of equipment when planning, developing and taking part in a health and fitness programme
- critically analyse and evaluate their own demonstration of relevant skills, techniques and processes
 relevant to the sector when planning, developing and taking part in a health and fitness programme
 in an excellent and highly comprehensive manner

To achieve a level 2 pass learners will be able to:

- recall and apply mostly relevant knowledge and understanding in a good and mostly detailed
 manner of the functions of the body systems, understanding the principles of training, knowing how
 the body reacts in the short and long-term to fitness activities, how to create and apply lifestyle
 analysis tools and how to create a fitness programme for a person with specific goals
- analyse and evaluate, to make good, mostly reasoned judgements and reach conclusions on the
 functions of the body systems, understanding the principles of training, knowing how the body reacts
 in the short and long-term to fitness activities, how to create and apply lifestyle analysis tools and
 how to create a fitness programme for a person with specific goals
- safely and effectively demonstrate good and mostly relevant skills, techniques and processes, relevant to the sector, when using a wide range of equipment when planning, developing and taking part in a health and fitness programme
- analyse and evaluate their own demonstration of relevant skills, techniques and processes, relevant to the sector, when planning, developing and taking part in a health and fitness programme in a good and mostly detailed manner

To achieve a level 1 pass learners will be able to:

- recall and apply some knowledge and understanding, in a reasonable manner that has some
 relevance and some detail of the functions of the body systems, understanding the principles of
 training, knowing how the body reacts in the short and long-term to fitness activities, how to create
 and apply lifestyle analysis tools and how to create a fitness programme for a person with specific
 goals
- analyse and evaluate, to make reasonable judgements and reach conclusions on the functions of the body systems, understanding the principles of training, knowing how the body reacts in the short and long-term to fitness activities, how to create and apply lifestyle analysis tools and how to create a fitness programme for a person with specific goals
- safely and effectively demonstrate reasonable skills, techniques and processes, relevant to the sector, when using a wide range of equipment when planning, developing and taking part in a health and fitness programme

 analyse and evaluate their own demonstration of relevant skills, techniques and processes, relevant to the sector, when planning, developing and taking part in a health and fitness programme in a reasonable manner, with some detail

Grading information

The following grades are available for the qualification; level 2 distinction*, level 2 distinction, level 2 merit, level 2 pass, level 1 distinction, level 1 merit and level 1 pass.

The qualification is linear, meaning both assessments must be taken in the same assessment series and cannot be combined across different assessment series. After the assessment is complete, the marks for each assessment are combined to give a final mark for each learner. Where raw marks do not reflect the required weighting of the assessment, a scaling factor is applied to the raw mark prior to aggregation.

Scaling factors can be found in the table below.

Assessment	Maximum raw mark	Weighting	Scaling factor	Maximum scaled mark
Non-exam	88 marks	60%	1.364	120
assessment	00 marks	00 70	1.504	120
Examined	80 marks	40%	1.000	80
assessment	ou marks	40 /0	1.000	00
			Total	200

For each series, grade boundaries are set by NCFE using a variety of statistical and judgemental evidence. Each learner's overall grade is determined by comparing their combined final mark with the grade boundaries for that series.

Where a learner achieves insufficient marks across the 2 assessments in the series to achieve a level 1 pass they will be awarded an unclassified (U) result.

Section 2: unit content and assessment guidance

This section provides details of the structure and content of this qualification.

Information in the teaching content section must be covered by the teacher during the delivery of the content areas and should be considered as mandatory teaching content.

The verb 'understand' encompasses both 'knowledge' and 'understanding' within the content areas of this qualification. Each content area will read 'The learner will understand'.

To make cross-referencing assessment and quality assurance easier, we have used a sequential numbering system in this document for each content area. The numbering system used refers to a content area, subject topic, and teaching content: (for example, 1.1.1 refers to the content area (first number 1), the subject topic within that learning content (second number 1.1) and the teaching content within the subject topic (third number 1.1.1)). This will support signposting feedback and tracking.

Anything within the teaching guidance is advisory and optional and is intended to provide useful advice and guidance to support delivery of the teaching content.

The types of evidence listed are for guidance purposes only. Within learners' portfolios, other types of evidence are acceptable if all content areas are covered.

Whilst studying the qualification, learners should reflect on the importance of knowing and developing their preferred learning style. They should also be able to identify a range of individual study skills they can use in order to study effectively.

For further information or guidance about this qualification, please contact our customer support team.

Content areas

This qualification consists of one unit with multiple content areas.

The regulated unit title is 'Understanding health and fitness'.

The regulated unit number for the qualification content is D/618/6059

Content area number	Content area title	Suggested GLH
Content area 1	Structure and function of body systems	25
Content area 2	Effects of health and fitness activities on the body	5
Content area 3	Health and fitness and the components of fitness	10
Content area 4	Principles of training	10
Content area 5	Testing and developing components of fitness	25
Content area 6	Impact of lifestyle on health and fitness	10
Content area 7	Applying health and fitness analysis and setting goals	10
Content area 8	Structure of a health and fitness programme and how to prepare safely	25

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Content areas

Content areas

Structure and function of body systems

- 1.1 Skeletal system
 - 1.1.1 Structure of the skeleton
 - 1.1.2 Functions of the skeletal system
 - 1.1.3 Types of bones
 - 1.1.4 Types of joints
 - 1.1.5 Joint actions
 - 1.1.6 Structure of a synovial joint
 - 1.1.7 Structure of the spine
 - 1.1.8 Posture
- 1.2 Muscular system
 - 1.2.1 Types of muscle
 - 1.2.2 Structure of the muscular system
 - 1.2.3 Muscle movement
 - 1.2.4 Muscle contractions
 - 1.2.5 Muscle fibre types
 - 1.2.6 Performance of muscle fibres
- 1.3 Respiratory system
 - 1.3.1 Structure of the respiratory system
 - 1.3.2 Functions of the respiratory system
 - 1.3.3 Diffusion and gaseous exchange
 - 1.3.4 Respiratory measurements
 - 1.3.5 Respiratory changes
- 1.4 Cardiovascular system
 - 1.4.1 Structure and function of the blood vessels
 - 1.4.2 Blood redistribution
 - 1.4.3 Structure of the heart
 - 1.4.4 The cardiac cycle
 - 1.4.5 Cardiovascular measurements
 - 1.4.6 Blood pressure
- 1.5 Energy systems

2. Effects of health and fitness activities on the body

- 2.1 Effects of health and fitness activities on the body
 - 2.1.1 Short-term effects of health and fitness activities (during and/or up to 36 hours after)
 - 2.1.2 Long-term effects of health and fitness activities (over 36 hours and up to months after)

3. Health and fitness and the components of fitness

- 3.1 Understanding health and fitness
- 3.2 Components of fitness
 - 3.2.1 Health-related fitness
 - 3.2.2 Skill-related fitness

4. Principles of training

- 4.1 Principles of training
 - 4.1.1 Understanding the principles of training
 - 4.1.2 Principles of overload (FITT)

5. Testing and developing components of fitness

- 5.1 Fitness testing
 - 5.1.1 Health-related fitness tests

Content areas

- 5.1.2 Skill-related fitness tests
- 5.1.3 Using data
- 5.1.4 Validity and reliability
- 5.2 Training methods
- 5.3 Optimising a health and fitness programme
 - 5.3.1 Heart rate training zones
 - 5.3.2 Repetitions and sets

6. Impact of lifestyle on health and fitness

- 6.1 Lifestyle factors
 - 6.1.1 Activity levels
 - 6.1.2 Diet
 - 6.1.3 Rest and recovery
 - 6.1.4 Other factors

7. Applying health and fitness analysis and setting goals

- 7.1 Health and fitness analysis and goal setting
 - 7.1.1 Health and fitness analysis tools
 - 7.1.2 Collecting, using, analysing and evaluating data
 - 7.1.3 Goal setting

8. Structure of a health and fitness programme and how to prepare safely

- 8.1 The structure of a health and fitness training programme
- 8.1.1 Components of a health and fitness programme
 - 8.1.2 Health and safety
 - 8.1.3 The session plan
 - 8.1.4 Warm-up/cool-down
 - 8.1.5 Main activity section
 - 8.1.6 Reviewing the activity session
- 8.2 Timescales and goal setting

Teaching content

Information in this section must be covered by the teacher during the delivery of this qualification.

1. Structure and function of body systems

1.1	Skeletal system		
1.1.1	Structure of the skeleton		
	The learner will understand how to locate the bones in the 2 sections of the skeleton:		
	• axial:		
	o cranium		
	o sternum		
	o ribs		
	o vertebrae		
	appendicular:		
	∘ clavicle		
	o scapula		
	o humerus		
	o radius		
	o ulna		
	o carpals		
	o metacarpals		
	o tarsals		
	o metatarsals		
	o pelvis		
	o femur		
	o tibia		
	o fibula		
	o phalanges		
1.1.2	Functions of the skeletal system		
	The learner will understand the functions of the skeletal system and how they assist during		
	sport/activity:		
	Sport/activity.		
	• support		
	movement		
	protection of vital organs atorgan of minerals		
	storage of minerals		
	blood cell production		
4.4.0	• shape/structure		
1.1.3	Types of bones		
	The learner will understand the types of bones in the body, their primary function and how		
	they relate to movement (where applicable):		
	land an		
	• long:		
	o humerus		
	o femur		
	o clavicle		
	o radius		
	o ulna		

0

metacarpals metatarsals 0 tibia 0 fibula phalanges 0 flat: ribs 0 0 sternum scapula 0 pelvis 0 cranium 0 irregular: vertebrae short: carpals 0 tarsals sesamoid: patella 1.1.4 Types of joints The learner will understand the function of joints and the different types of joints in the body: fixed joints: skull pelvis slightly moveable joints: vertebrae synovial joints: ball and socket: shoulder hip hinge: elbow ankle knee pivot 0 saddle condyloid gliding 0 1.1.5 Joint actions The learner will understand types of movement, how they relate to ball and socket and hinge joints and their application to specific actions in health and fitness: flexion: how it relates to joints: decreases the angle between 2 joints application to actions in health in fitness: reduces the angle between the knee and ankle when bending knees extension: how it relates to joints: increases the angle between 2 joints

- o application to actions in health and fitness:
 - extension of the elbow joint
- rotation:
 - o how it relates to joints:
 - revolves a bone or limb around a single axis
 - application to actions in health and fitness:
 - swinging or throwing motions
- abduction:
 - o how it relates to joints:
 - moves a limb away from the body
 - o application to actions in health and fitness:
 - raising arms above shoulder height
- adduction:
 - how it relates to joints:
 - moves a limb towards the body
 - application to actions in health and fitness:
 - bring arms to the side of the body
 - bringing knees together
- plantarflexion:
 - o how it relates to joints:
 - extends the ankle joint
 - application to actions in health and fitness:
 - allows the feet to point downwards
- dorsiflexion:
 - o how it relates to joints:
 - raises the foot upwards towards the shin
 - application to actions in health and fitness:
 - used in any action requiring walking or running

1.1.6 Structure of a synovial joint

The learner will understand the structure of a synovial joint, the function of each component, and how to identify the articulating bones of each synovial joint:

- articulating cartilage:
 - provides a smooth lubricated surface to absorb shock and aid movement
- ligaments:
 - stabilise joints during movement
- tendons:
 - o connect muscle to the bones to allow movement
- synovial membrane:
 - lines the joint cavities and makes synovial fluid
- synovial fluid:
 - lubricates the joint to reduce friction between the articular cartilages
- joint capsule:
 - surrounds and seals the synovial joint to provide stability

1.1.7 Structure of the spine

The learner will understand how to locate the different regions of the vertebral column:

- cervical:
 - o atlas

	o axis		
	the area of a		
	tnoracic lumbar		
	sacrum		
4.4.0	• coccyx		
1.1.8	Posture		
	The learner will understand the effects posture can have when performing health and fitness		
	activities and how to recognise postural changes:		
	affects of posture.		
	effects of posture:		
	o good posture:		
	prevents back ache		
	• prevents fatigue		
	 improves technique 		
	bad posture:impaired lung function		
	 back, neck and shoulder pain 		
	• impairs technique		
	postural changes: Ityphosis		
	kyphosislordosis		
	n		
4.2			
1.2 1.2.1	Muscular system Types of muscle		
1.2.1			
	The learner will understand the types of muscle, where they are located, and their characteristics and functions:		
	Characteristics and functions.		
	• cardiac:		
	o found in the heart		
	o involuntary		
	aids blood flow through the heart		
	• smooth:		
	o found in multiple locations:		
	digestive tract		
	 blood vessels 		
	lungs		
	• stomach		
	• uterus		
	 bladder 		
	o contracts in all directions		
	 involuntary 		
	o aids digestion		
	 helps the distribution of blood 		
	skeletal:		
	 found around the body 		
	o works voluntarily		
1			
	 aids with movement 		

The learner will understand the structure of the muscular system by locating the main muscles of the muscular system and understanding their relation to joint actions:

deltoid:

- o adducts the upper arm away from the body
- stabilises the shoulder joint
- trapezius:
 - o allows movement of the head and shoulder blades
- latissimus dorsi:
 - allows movement of shoulder joints
 - allows adduction of the arm towards the body
- pectorals:
 - allows rotation of the humerus bone
 - allows adduction of the arm
- biceps:
 - allows flexion of the elbow
- triceps:
 - controls the extension of the forearm at the elbow joint
- abdominals:
 - o allows flexion of the trunk and rotation of the spine
 - allows flexion of the hips
- obliques:
 - allows adduction of the upper body
- quadriceps:
 - o allows the extension of the leg at the knee joint
- hamstrings:
 - o allows movement of the hip joint and knee joint while walking or running
- gastrocnemius:
 - allows flexion of the ankle joint known as plantar flexion
- gluteals:
 - extends the hip joint allowing the whole leg to move backwards
- hip flexors:
 - allows flexion of the hip to bring the whole leg forwards
- tibialis anterior:
 - allows dorsiflexion to raise to toes towards the shin
 - allows plantarflexion to point toes away from the shin

1.2.3 Muscle movement

The learner will understand how muscles work in antagonistic pairs to produce movement at a joint and how to apply this principle to specific actions in health and fitness:

agonist (prime mover)

antagonist

origin/insertion:

- o biceps
- triceps
- o quadriceps
- hamstrings

1.2.4 Muscle contractions

The learner will understand the types of muscle contractions and how to apply these to specific actions and muscles:

- isotonic:
 - concentric
 - eccentric
- isometric:
 - static contraction

1.2.5 Muscle fibre types

The learner will understand the different muscle fibre types and their characteristics, including colour, contraction speed and fatigue speed, and which muscle fibre types are suited to different types of health and fitness activities:

type 1 (slow twitch fibres):

- o characteristics:
 - dark red in colour
 - slow contraction speed
 - slow fatigue speed
 - can provide their own source of energy and sustain force for an extended time but cannot generate a significant amount of force
- best suited to the following health and fitness activities:
 - long distance running
 - cycling
 - swimming
- type 2 (fast twitch fibres):
 - characteristics:
 - white in colour
 - fast contraction speed
 - fast fatigue speed
 - o can provide bigger and more powerful forces but over a shorter period of time
 - best suited to the following health and fitness activities:
 - sprinting
 - jumping
 - weightlifting

1.2.6 Performance of muscle fibres

The learner will understand that individuals have differing numbers of type 1 and type 2 muscle fibres and how specific training can affect the performance of muscle fibre types:

type 1:

- training at low intensity but performing higher repetitions improves performance of muscle fibre type
- type 2:
 - training at high intensity but performing lower repetitions improves performance of muscle fibre type

1.3 Respiratory system

1.3.1 Structure of the respiratory system

The learner will understand the pathway of air through the respiratory system and how to locate the following structures:

nose/mouth

	· tvochoo
	• trachea
	• lungs
	• bronchi
	• bronchioles
	alveoli
	pharynx
	• larynx
	• ribs
	diaphragm
	intercostal muscles
1.3.2	Functions of the respiratory system
	The learner will understand the mechanics of breathing in (inhalation) and breathing out
	(exhalation) and the role of:
	intercostal muscles
	• ribs
	diaphragm
1.3.3	Diffusion and gaseous exchange
	The learner will understand the terms 'diffusion' and 'gaseous exchange' and the features of
	the alveoli that assist gaseous exchange:
	diffusion – gas moving from a high concentration to a low concentration
	gaseous exchange – the movement of oxygen and carbon dioxide between the alveoli
	and the capillaries in the lungs
	features of the alveoli that assist gaseous exchange:
	 moist, very thin walls (one cell thick)
	 provide large surface area for gaseous exchange to occur
	short diffusion pathway
404	surrounded by capillaries
1.3.4	Respiratory measurements
	The learner will understand how to interpret the spirometer traces:
	hypothics vate (DD)
	• breathing rate (BR)
	• tidal volume (TV)
	vital capacity (VC)
	inspiratory reserve volume (IRV)
	expiratory reserve volume (ERV)
	residual volume (RV)
1.3.5	Respiratory changes
	The learner will understand the respiratory changes that happen from rest to participating in
	health and fitness activities:
	muscles demand more oxygen as they work harder
	heart rate increases to pump blood
	rate and depth of breathing increases to:
	meet oxygen demands
	release carbon dioxide through exhalation
1.4	Cardiovascular system

The learner will understand the structure of the blood vessels and how the structure relates to the functions of blood distribution: • veins: • thin walls • wide lumen • contain valves to ensure blood flows in one direction • carry blood to the heart • carry blood under low pressure • arteries: • thick, muscular walls • narrow lumen • carry blood away from the heart to the body • carry blood under high pressure • smooth muscle that can vasoconstrict/vasodilate to increase or reduce blood flow • capillaries: • the smallest blood vessels • very thin walls (one cell thick) • assist with gaseous exchange with/at the alveoli in the lungs • diffusion of gases at muscles and other organs 1.4.2 Blood redistribution The learner will understand how the blood vessels redistribute blood (vascular shunt) during
veins: thin walls wide lumen contain valves to ensure blood flows in one direction carry blood to the heart carry blood under low pressure arteries: thick, muscular walls narrow lumen carry blood away from the heart to the body carry blood under high pressure smooth muscle that can vasoconstrict/vasodilate to increase or reduce blood flow capillaries: the smallest blood vessels very thin walls (one cell thick) assist with gaseous exchange with/at the alveoli in the lungs diffusion of gases at muscles and other organs 1.4.2 Blood redistribution
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1.4.2 Blood redistribution
The learner will understand how the blood vessels redistribute blood (vascular shunt) during
The realities will all activated the will brook the color to all all brook the color at the colo
health and fitness activities:
 vascular shunt – the function of blood redistribution to the muscles with greater demand,
while diverting away from areas of lower demand, through:
 the widening of blood vessels (vasodilation)
 the narrowing of blood vessels (vasoconstriction)
1.4.3 Structure of the heart
The learner will understand the 2 sides that the heart is divided into (left and right) and how
to locate the following structures:
atrium (left and right)
ventricles (left and right)
pulmonary vein
pulmonary artery
• aorta
vena cava
• valves:
o bicuspid
o tricuspid
o aortic
o pulmonary
septum
1.4.4 The cardiac cycle
The learner will understand the order of the cardiac cycle and the pathway of deoxygenated
and oxygenated blood around the heart:

- deoxygenated blood from the body → vena cava → right atrium → tricuspid valve → right ventricle → pulmonary valve → pulmonary artery→ to the lungs → pick up oxygen and nutrients to become oxygenated
- oxygenated blood from the lungs → pulmonary vein → left atrium → bicuspid valve → left ventricle → aortic valve → aorta → to the body → drop off oxygen and nutrients, pick up waste products and become deoxygenated

1.4.5 Cardiovascular measurements

The learner will understand the following cardiovascular measurements, including how they are measured (limited to maximal heart rate and cardiac output) and understand how they are relevant to health and fitness:

- heart rate (HR) measured by beats per minute (BPM)
- maximum heart rate (MHR) = 220 minus age
- stroke volume (SV)
- cardiac output (CO)
- the relationship between stroke volume, heart rate and cardiac output linked with cardiac output equation:
 - \circ CO = SV x HR

1.4.6 Blood pressure

The learner will understand the 2 different types of blood pressure, the ranges of blood pressure classification and factors that affect blood pressure:

- systolic
- diastolic
- range of blood pressure classifications:
 - o the ideal range between 90/60mmhg and 120/80mmhg
 - elevated blood pressure between 121/81mmhg and 139/89mmhg
 - o high blood pressure is 140/90mmhg >
 - low blood pressure is 90/60mmhg <
- factors that affect blood pressure:
 - activity levels
 - diet
 - age
 - o stress

1.5 Energy systems

The learner will understand the anaerobic and aerobic energy systems and how to apply these to health and fitness activities:

- anaerobic energy system:
 - non-oxygen dependent
 - short duration activities between 1 second and 60 seconds
 - lactic acid is a by-product (anaerobic = glucose energy + lactic acid)
- aerobic energy system:
 - oxygen dependent
 - o long duration activities more than 1 minute
 - carbon dioxide and water are by-products (aerobic = oxygen + glucose energy + CO2 + water)

2. Effects of health and fitness activities on the body

2.1	Effects of health and fitness activities on the body
2.1.1	Short-term effects of health and fitness activities (during and/or up to 36 hours after)
	The learner will understand the short-term effects that health and fitness activities can have on the body, how to link these to specific health and fitness activities and why each short-term effect occurs:
	 increased breathing rate/depth of breathing (tidal volume): more oxygen is required and more carbon dioxide must be expelled increased heart rate and cardiac output/increased stroke volume: more blood is being provided to the muscles increased blood pressure: the faster circulation of blood leads to a rise in systolic pressure and diastolic
	 pressure increased body temperature (leading to sweating): heat is a by-product of energy being produced decreased hydration levels: more fluid is lost than is taken in
	 muscle fatigue: insufficient oxygen to meet demand and an increase in lactic acid delayed onset muscle soreness (DOMS): damage to the muscle fibres due to them working at a high intensity light headedness: lack of hydration or sudden drop in blood pressure due to overexertion
	 nausea: blood flowing to the digestive tract and stomach being rerouted to fatigued muscles tiredness: working hard for a prolonged period of time, inappropriate training plans, lack of sleep, or insufficient hydration and nutrition
2.1.2	Long-term effects of health and fitness activities (over 36 hours and up to months after)
	The learner will understand the long-term effects of health and fitness activities on the body, how to link these to specific health and fitness activities and why each long-term effect occurs:
	 improved cardiovascular endurance: regular exercise strengthens the heart muscle improves blood vessels and increases amount of capillaries strengthens respiratory muscles
	 improved efficiency to use oxygen: increased lung capacity and stronger respiratory muscles lower blood pressure:
	 a stronger heart that pumps blood easier decreased resting heart rate: fewer beats of the heart are required to pump blood
	 cardiac hypertrophy: a stronger heart and a decrease in resting blood pressure improved muscular endurance:

- increased muscle mass due to training that has worked the muscles for a prolonged period of time
- improved muscular strength:
 - o increased muscle mass due to working the muscles against a resistance
 - increased tendon and ligament strength
- improved resistance to fatigue:
 - o an increased capacity to use oxygen
- muscle hypertrophy:
 - o increased muscle mass
- increased volume of red blood cells:
 - to compensate for low oxygen levels which have been lowered by exercise
- improved flexibility:
 - adequate stretching
- body shape change:
 - o endomorph (higher body fat percentage than muscle, heavier, rounder):
 - occurs when an individual struggles to lose fat or build muscle
 - ectomorph (little body fat, light muscle):
 - occurs when an individual struggles to gain fat or build muscle
 - mesomorph (more muscle than fat):
 - occurs when an individual easily loses fat and builds muscle



3. Health and fitness and the components of fitness

3.1	Understanding health and fitness
3.1	Understanding health and fitness The learner will understand the terms 'health' and 'fitness' and the relationship between
	them:
	illeni.
	h = 14h .
	health:
	o a state of wellbeing:
	physical
	■ mental
	social
	• fitness:
	 an ability to meet the demands of an environment
	relationship between health and fitness
3.2	Components of fitness
3.2.1	Health-related fitness
	The learner will understand the 5 components of health-related fitness, their definitions, how
	to link the components to health and fitness activities (inclusive of sporting activities) and the
	effect that improvements to the components has on performance in the activity:
	body composition – certain body compositions provide advantages to different
	sports/activities
	 cardiovascular endurance – allows longer periods of exercise at higher intensity
	 flexibility – enhances range of motion, improves aerobic fitness and can prevent injury
	 muscular endurance – allows muscular performance for longer before fatigue
	muscular strength: allows footer improvement and reduces risk of injury.
	o allows faster improvement and reduces risk of injury
	o allows performer to exert a greater force against a resistance when competing:
	static: the muscles contract and hold position
	 dynamic: the muscles contract and extend repeatedly
0.00	explosive: the muscles contract at a high speed
3.2.2	Skill-related fitness
	The learner will understand the 6 components of skill-related fitness, their definitions, how to
	link these components to health and fitness activities (inclusive of sporting activities) and the
	effect that improvements to the components has on performance in the activity:
	• agility:
	improves flexibility and balance during performance
	improves performer's speed at changing direction
	balance: controls postural alignment and helps the body move more efficiently
	co-ordination:
	 contributes to more efficient movement
	 improves the ability to move many body parts at once
	• power:
	 acts as the foundation for dynamic movement and generates rapid force
	 enables the performer to perform actions that require both strength and speed
	reaction time: enables the performer to react quickly to a stimulus
	 speed: enables the performer to move the body quickly
	1 - Special chables the performer to move the body quietty

4. Principles of training

4.1	Principles of training
4.1.1	Understanding the principles of training
	The learner will understand the 5 principles of training (SPORT) and how they can be applied to meet the needs of individuals to optimise performance in health and fitness activities:
	specificity
	progression
	overload
	reversibility
	tedium
4.1.2	Principles of overload
	The learner will understand the principles of overload (FITT) and how they can be applied to meet the needs of individuals to optimise performance in health and fitness activities:
	frequency
	intensity
	• time
	• type

5. Testing and developing components of fitness

5.1	Fitness testing
5.1.1	Health-related fitness tests
01111	The learner will understand the purpose and procedure of health-related fitness tests:
	cardiovascular endurance:
	 multi-stage fitness test (beep or pacer test):
	 purpose: to measure maximum rate of oxygen consumption during exercise
	against age adjusted tables to show level of fitness
	procedure:
	20 metre shuttle runs between 2 fixed points shuttle runs performed in time with a beginn sound
	 shuttle runs performed in time with a beeping sound time between beeps is reduced until maximum fitness level is reached
	12 minute Cooper run test:
	 purpose: to measure aerobic fitness and cardiovascular endurance
	procedure:
	an individual runs as far as they can for a 12 minute period
	their distance covered is measured
	 test results (volume oxygen (VO2) max results) are calculated using formula
	VO2max = (22.351 x kilometres) - 11.288
	 test results are compared on a national scale
	Bruce protocol test:
	 purpose: to measure maximum rate of oxygen consumption during exercise of
	 increasing intensity and measure aerobic and cardiovascular endurance procedure: multiples of 3 minute stages on a treadmill, increasing gradient and
	speed on each stage
	muscular strength:
	o handgrip dynamometer:
	 purpose: to measure the isometric strength of the hand and forearm muscles
	 procedure: individual uses a dynamometer squeeze for at least 5 seconds, 3
	separate times with each hand calculating the average score
	muscular endurance:
	o sit-up test:
	purpose: to measure abdominal enduranceprocedure:
	 the individual lies on their back, knees bent, feet flat on the floor and arms
	crossed over the chest
	another person may hold their ankles
	the individual performs a sit-up by raising their upper body up to their knees
	then lowering back to the ground
	 the individual repeats this as many times as possible for a 2 minute period
	maximum push test (upper body):
	 purpose: to set an upper body endurance baseline to measure improvement
	over a period of time
	 procedure: adopting the prope position carms shoulder width apart
	 adopting the prone position – arms shoulder width apart pushing up until the arms are locked
	 lowering the body back to the prone position
	 counting the number of fully achieved push-ups in 60 seconds

- o squat test:
 - purpose: to set a lower body endurance baseline to measure improvement over a period of time
 - procedure:
 - standing with feet apart, back to the wall, hips apart and knees flexed at 90 degree angle
 - lifting one foot 5 cm off the ground for as long as possible
 - timing from the raising of the foot to it making contact with the ground
- body composition:
 - body mass index (BMI):
 - purpose: to measure if an individual is a healthy weight for their height
 - procedure:
 - an individual's weight is measured
 - an individual's height is measured
 - the weight and height measurements are placed on a chart
 - the placement on the chart dictates whether the individual is under weight, normal weight, overweight or obese
 - skinfold callipers:
 - purpose: to measure subcutaneous fat to predict the total amount of body fat using formulas
 - procedure:
 - standing erect and relaxed
 - pinch the skin in the area to be measured
 - apply callipers approximately 1 cm away from fingers and measure the vertical fold
- flexibility:
 - sit and reach test:
 - purpose: to measure the extensibility of the hamstring and lower back
 - procedure:
 - sitting up straight on the floor with legs stretched out in front against a step
 - placing a ruler on the step between the knees
 - stretching forward from the waist with hands together
 - noting the distance on the ruler of the point of the greatest stretch

5.1.2 Skill-related fitness tests

The learner will understand the purpose and procedure of skill-related fitness tests:

- agility:
 - Illinois agility test:
 - purpose: to test sporting agility by testing the ability to turn in different directions at speed.
 - procedure:
 - the individual sprints to a set point
 - the individual then sprints in and out of a series of cones
 - the individual finishes off with a sprint between 2 fixed points
- speed:
 - o 30 metre sprint test:
 - purpose: to determine acceleration and speed
 - procedure:
 - the individual performs a timed 30 metre sprint between 2 fixed points
 - the sprint is performed 3 times

- an average time is taken
- co-ordination:
 - o alternate hand wall toss test:
 - purpose: to measure the hand-eye co-ordination of the individual
 - procedure:
 - the individual stands 2 to 3 metres away from a wall
 - a ball is thrown underarm against the wall and caught with the opposite hand
 - the ball is then thrown against the wall again and caught with the original hand
 - the amount of consecutive catches in 30 seconds is measured
- power:
 - vertical jump test:
 - purpose: to measure the individual's lower limb explosive power
 - procedure:
 - the individual puts chalk on their fingertips
 - the individual then stands side-on to a wall with both feet flat on the ground
 - the individual then reaches up as high as possible and marks the wall with their chalked fingers
 - from a static position, they jump as high as possible and marks the wall with chalked fingers
 - the distance between both marks on the wall are measured
- balance:
 - stork stand test:
 - purpose: to measure the progress of the individual's ability to maintain balance in a static position
 - procedure:
 - the individual stands with their hands on their hips
 - they then place the sole of one foot against the inside of the knee of the standing foot
 - they then raise their heel off the floor and balance on the ball of their foot
 - this is timed from the moment the heel leaves the floor to the moment it returns to the floor
- · reaction time:
 - ruler drop test:
 - purpose: to measure reaction and response time
 - procedure:
 - working with a partner, the individual holds out their hand with a gap between thumb and forefinger
 - the partner drops the ruler between the individual's fingers without warning
 - the individual catches the ruler between thumb and forefinger
 - the measurement on the ruler between thumb and forefinger is recorded
 - the test is repeated 5 times and an average measurement is taken

5.1.3 Using data

The learner will understand how to collect, use and analyse fitness test data to evaluate levels of fitness:

- normative data: used to find average measurements against which to measure an individual's data with a view to improvement
- test and re-test: used to measure the consistency of a test over time

5.1.4	Validity and reliability
01111	The learner will understand the following terms and how they relate to fitness testing:
	validity: how accurate the method of measurement is
	reliability: how consistent the method of measurement is
5.2	Training methods
	The learner will understand different training methods, how they may support different individual goals in a health and fitness programme and how to set up a basic training schedule for the following methods:
	• interval:
	maximises cardiovascular benefits
	strengthens heart
	o improves anaerobic fitness
	• circuit:
	o targets strength building
	o targets muscular endurance
	o can be tailored to meet the different components of fitness
	fartlek:
	o improves speed
	o improves endurance
	• continuous:
	o improves cardiovascular fitness
	o improves aerobic and anaerobic fitness
	weight training and body weight:
	o increases muscle mass and strength
	o increases muscular endurance
	o reduces body fat
	plyometric:increases speed
	 increases speed increases endurance
	o increases strength
	flexibility:
	o improves range of motion
	o improves posture
	o improves muscle co-ordination
	o reduces risk of injury
5.3	Optimising a health and fitness programme
5.3.1	Heart rate training zones
	The learner will understand heart rate training zones and how to apply them to support
	individual goals, through a health and fitness programme:
	maximum heart rate (MHR) equation:
	o subtract age from 220
	aerobic fitness: between 60–80% of MHR
	anaerobic fitness: between 80–100% of MHR
5.3.2	Repetitions and sets
	The learner will understand repetition and sets range and how to apply them to support
	individual goals, through a health and fitness programme:

- muscular strength: high weight-low rep
- muscular endurance: low weight-high rep

6. Impact of lifestyle on health and fitness

6.1	Lifestyle factors
6.1.1	Activity levels
	The learner will understand the terms 'active lifestyle' and 'sedentary lifestyle', with reference to current physical activity guidelines stated by the NHS, and how to classify specific health and fitness activities as either moderate or vigorous:
	 active lifestyle sedentary lifestyle
	 moderate and vigorous activities for health and fitness
6.1.2	Diet
0.1.2	The learner will understand how key nutrients relate to participation in health and fitness activities and what a balanced diet consists of:
	 key nutrients: fat carbohydrate protein vitamins minerals
	o fibre o water
	 balanced diet in relation to NHS guidelines: Eatwell Guide current recommended daily allowance (RDA) hydration: importance of hydration
	 importance of hydration effects of dehydration energy expenditure:
	o calories consumed vs calories burned
6.1.3	Rest and recovery
	The learner will understand the importance of rest and recovery for health and fitness:
	 sleep cool-down diet static stretching
	 massages ice baths rehydration
	intake of foodrest
6.1.4	Other factors
	The learner will understand how the following lifestyle factors can negatively affect health and fitness, and how to link their effects to specific examples in sport:
	 drugs: performance enhancing: joint pain

- dehydration
- muscle weakness/cramps
- vision problems
- high/low blood pressure
- o recreational:
 - muscle wastage
 - cardiovascular problems
 - weight loss
 - loss of concentration
- smoking:
 - o breathlessness
 - reduced blood flow due to narrowing of arteries
- alcohol:
 - o decreased co-ordination
 - o delayed reaction
 - o impaired balance
 - o increases dehydration
- stress:
 - o anxious performance
 - irritability
 - fatigue

7. Applying health and fitness analysis and setting goals

7.1	Health and fitness analysis and goal setting
7.1.1	Health and fitness analysis tools
	The learner will understand health and fitness analysis tools, what information is collected,
	how to administer them and why they are used:
	physical activity readiness questionnaire (PAR-Q):
	 collects health and lifestyle information from individuals prior to an exercise
	programme
	 used during the induction process of a new client to a gym
	 establishes the safest and most appropriate training plan for a client
	lifestyle questionnaire:
	o collects information relating to an individual's lifestyle:
	 current levels of physical activity
	 alcohol consumption
	■ smoking
	• stress
	■ diet
	administered prior to a training plan
	establishes the need for certain lifestyle changes in order to reach fitness goals
	food diary:
	 collects information about an individual's food and drink consumption
	 establishes the diet changes required to reach fitness goals and helps an individual track their diet
7.1.2	
1.1.2	Collecting, using, analysing and evaluating data
	The learner will understand how to collect, use, analyse and evaluate data to suggest
	improvements:
	• collect:
	o determine the information required
	o identify most appropriate data collection method
	o carry out data collection method
	USE: U
	use data in line with data protection requirements
	analyse: Output
	o summarise the collected data
	o interpret the findings using logical reasoning
	o determine trends or patterns
	evaluate:
	o establish the result of findings
	o identify improvements to the process
7.1.3	Goal setting
	The learner will understand the acronym SMART in relation to goal setting and how to apply
	the SMART principles to set health and fitness goals:
	specific
	measurable
	attainable
	realistic

- time bound:
 - short-term (1 day–1 month)
 - o medium-term (1 month–6 months)
 - o long-term (6 months plus)

8. Structure of a health and fitness programme and how to prepare safely

8.1	The structure of a health and fitness training programme
8.1.1	Components of a health and fitness programme
	The learner will understand the information that should be included in a health and fitness
	programme:
	an overview of the health and fitness programme, with reference to clients' goals and
	rest days
	lifestyle analysis:
	o PAR-Q
	fitness test results
	session plans
8.1.2	Health and safety
<u> </u>	The learner will understand health and safety considerations needed for a health and fitness
	programme both in relation to the planning and delivery:
	programme bour in rolation to the planning and donvery.
	facilities
	equipment checks and set-up
	client behaviour
	levels of progress:
	 ensuring intensity is not progressed too quickly risking injury
2.4.2	appropriate clothing and footwear
8.1.3	The session plan
	The learner will understand the information that should be included in the session plan:
	warm-up, main activity section and cool-down
	training methods
	activity type
	 time, repetitions, sets, weight, intensity levels and rest periods
	heart rate training zone targets for the session
	targeted muscles
8.1.4	Warm-up/cool-down
	The learner will understand the purpose, benefits and phases of a warm-up and cool-down
	and how these are applied to a health and fitness session/activity:
	purpose/benefit of a warm-up:
	o gradually increase heart rate
	o mobilise joints
	 increase blood flow to the muscles
	 prepare muscles for health and fitness activities
	o reduce the risk of injury
	o aid mental preparation
	phases of a warm-up:
	o mobilisation
	o pulse raiser
	o stretches: dynamic
	o practise movement
	purpose/benefit of a cool-down:
	allow breathing rate to return to normal
	o allow breathing rate to retain to normal

- gradually decrease heart rate
- gradually reduce body temperature
- remove waste products from the muscles
- phases of a cool-down:
 - pulse lowering
 - stretches: static
- timescales

8.1.5 Main activity section

The learner will understand the components of the main activity section and how the principles of training and the principles of FITT are applied to an activity session. The learner will also understand why different methods of training are included in an activity session and how they link to components of fitness:

- health and fitness analysis
- training methods to improve or meet a goal
- principles of training:
 - o specificity:
 - training should be relevant and appropriate to the sport
 - a specific skill should be performed in order to improve at it
 - progression:
 - training should be adjusted according to:
 - age
 - gender
 - sex
 - rate of progress
 - development
 - required reasonable adjustments
 - pregnancy/maternity status
 - gender reassignment
 - religious requirements (training schedule adjustment to account for times of worship)
 - overload:
 - gradual increase in the weight/frequency/number of repetitions in strength training outcomes
 - reversibility:
 - stopping training can lead to loss of muscular strength and aerobic capacity
 - can be used when athletes plateau: stopping, then training back up and progressing past the point of plateau
 - o tedium:
 - adapting training sessions by making changes to the intensity, volume and time
 of work out
 - preventing stagnation
- FITT:
 - frequency:
 - how often exercise takes place
 - improving performance by increasing frequency
 - o intensity:
 - working at a higher percentage of maximum heart rate
 - gradually increased to avoid injury
 - o time:

- time of day
- length of session
- o type:
 - variety of exercise type can:
 - help avoid injury
 - develop muscle groups
 - reduce boredom and maintain focus on activity

8.1.6 Reviewing the activity session

The learner will understand the requirements for reviewing the activity session:

- achievement of SMART targets
- variation on lifestyle questionnaire answers throughout process
- application of health and safety requirements
- the effectiveness of plan
- effectiveness of warm-up/cool-down
- application of principles of training
- application of FITT
- were the aims/objectives achieved
- strengths/weaknesses of the activity session
- feedback from participants
- improvements for future activity sessions

8.2 Timescales and goal setting

The learner will understand how to plan a programme building on training sessions that is within a suitable timescale or over time against a specified goal or target:

- understanding the individual's current health and readiness to participate (PAR-Q):
 - health conditions and underlying health issues
 - o advising individual to seek medical advice if required
 - adjusting training plan according to doctor's advice if required
- knowing the individual's lifestyle choices:
 - establishing any lifestyle choices that need to be addressed in order to achieve goals
- carrying out a health and fitness assessment:
 - establishing baseline health and fitness levels for comparison
 - recording height, weight and establishing BMI
 - body measurements to measure progress
- discussing the needs and goals of the individual:
 - achievability
 - timeframes
- establishing the individual's motivation and commitment to training:
 - frequency of training
 - motivational drives for achieving goals
- developing the training plan, considering:
 - principles of training
 - o principles of FITT
 - components of fitness
 - methods of training

- scheduling regular health and fitness assessments:
 - establishing progress against baseline
 - o measuring progress against normative data
 - o adjusting the training plan based on progress

Teaching guidance

In this section, we provide some useful advice and guidance to support the delivery of the teaching content.

Website links are provided as sources of potentially useful information for delivery/learning of this subject area. NCFE does not explicitly endorse any learning resources available on these websites. For official NCFE endorsed learning resources, please see the additional and teaching materials sections on the qualification page on the NCFE website.

1. Teaching guidance – structure and function of body systems

Health and fitness activities are any form of exercise, competitive or non-competitive, including sport.

It is important learners are given the opportunity to gain knowledge and understanding about the skeletal system, muscular system, respiratory system, cardiovascular system and energy systems, through a combination of class-based and practical learning. For example:

- using sticky labels to identify the major bones on another learner or drawing on another learner if they are wearing a decorating suit
- completing a fitness activity lesson with the aim of identifying the agonist and antagonist in a range of movements
- using a plain white t-shirt to draw the respiratory system and then describing the structure and function of the parts of the respiratory system
- using red bibs (oxygenated blood) and blue bibs (deoxygenated blood), the learner walks around the cardiovascular system created on the floor, and then completes a diagram in their books
- watching video clips of a variety of health and fitness activities to identify which are aerobic and which are anaerobic

For 1.1.5, learners could be given examples of types of movements and asked to match the movement to the sporting action. For example:

- extension: in elbow joint when releasing the shot put
- rotation: in spine when completing a golf swing, or discus throwing
- adduction: lifting the body up towards the arms during a rings routine in gymnastics
- plantarflexion: in ankle joints when taking off, during a high jump action or a tennis serve

For 1.1.6, although learners will not be required to draw a synovial joint (knee) in the written exam, they must be able to understand the structure and functions of a synovial joint. The learners, in order to embed their knowledge, could carry out an assignment where they are required to:

- draw the knee joint outlining all structural aspects
- compare the knee joint to another synovial joint
- describe in detail the 6 types of synovial joint and their functions

For 1.1.7, the learners will not be assessed on how many vertebrae are in each region, however teaching this may help to embed their understanding of each region. To have a full appreciation of the structure and functions of the spine, learners should have knowledge of the 5 regions in terms of functionality. For example:

cervical: provides mobility and stability of the head

1. Teaching guidance – structure and function of body systems

- thoracic: holds rib cage and protects heart and lungs
- lumbar: bears the weight of the body
- sacrum: connects the spine to hip bones
- coccyx: formerly the tailbone, provides a connecting point for muscles and tendons

For 1.4.5, the learners will know the equation for cardiac output but will not be required to calculate it. In this equation, only the heart rate can be measured physically, with stroke volume only by means of specialist heart monitors.

A practical exercise to embed knowledge could be, for example:

Working in pairs, learners could practise taking each other's pulse, both wrist and neck. Learner 1 will record the resting heart rate of learner 2, who will then undertake a form of vigorous exercise, for 5 minutes. On completion of the exercise, learner 1 will immediately take the pulse of learner 2 to record the active heart rate, allow 5 minutes' rest and retake their partner's heart rate to measure how fast the heart recovers. The recovery figures can be compared against normative data.

For 1.2.5, type 1 and type 2 muscle fibres are not mutually exclusive and both types of training should be factored into any training plan, depending upon the needs of the individual in terms of performance in their chosen sport. Learners could be given examples of muscle fibre types and be asked to describe the structure of the fibres and match each type of muscle fibre with a type of athlete likely to have this form of muscle fibre. For example:

- type 1 muscle fibre (slow twitch fibres) fatigue resistant, high concentration of mitochondria and myoglobin, supports long distance endurance activities such as:
 - long distance running
 - cycling
 - swimming
- type 2 muscle fibre (fast twitch fibres) fatigues quickly, lower levels of mitochondria and myoglobin, supports bigger and more powerful forces - shorter more explosive activities such as:
 - o sprinting
 - o jumping
 - weightlifting

A practical exercise, for learners to determine the general fibre make-up of the individual, is in a gymnasium setting. Teachers could ask each learner to carry out a vertical jump. The height of the jump is less important than the action of the individual in preparing for their jump. Although the test does not lie, it is not conclusive, as medical tests would be needed for 100% accuracy. It is extremely important that the learner is not provided with any information as to why they are doing this exercise, as their actions in preparing to jump needs to be subconscious to provide a natural response to the movement.

- a slow twitch person: will tend to dip very low and slowly into a squat position before transitioning into the vertical jump
- a fast twitch person: will have a short and forceful dip and create more acceleration into the jump

1. Teaching guidance – structure and function of body systems

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets
- revision workbook

Other resource:

Hodder Health and Fitness Textbook (available from <u>www.hoddereducation.co.uk</u>)

Useful websites:

- www.bbc.co.uk/bitesize
- www.iachieveuk.wordpress.com/courses/health-and-fitness/
- www.bhf.org.uk/

2. Teaching guidance - effects of health and fitness activities on the body

It is important that learners are given the opportunity to gain knowledge and understanding about the short-term and long-term effects of health and fitness activities on the body, through a combination of class-based and practical learning. For example:

- participating in a health and fitness activity and at various intervals identify the various short-term effects that the activity is having on the body systems
- comparing pictures of individuals before and after a fitness training programme to identify the longterm effects on the body

In order to embed their knowledge, learners could be given examples of health and fitness activities and be asked to provide the likely short and long-term effects each can have on the body. For example:

- cycling
- cycling (spinning)
- running
- walking
- swimming
- weight training
- yoga
- aerobic exercise class
- dance

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets
- revision workbook

Other resource:

Hodder Health and Fitness Textbook (available from <u>www.hoddereducation.co.uk</u>)

Useful websites:

 www.bbc.co.uk/bitesize www.iachieveuk.wordpress.com/courses/health-and-fitness/

3. Teaching guidance - health and fitness and the components of fitness

It is important that the learners are given the opportunity to gain knowledge and understanding about the terms 'health' and 'fitness', the relationship between them and the components of fitness, through a combination of class-based and practical learning. For example:

group research to identify the definitions of health and fitness

- watching a range of health and fitness activities, try and identify the 11 components of fitness and then categorise them as health-related or skill-related
- creating a set of top trumps using a variety of activities, to give each activity a score for each of the 11 components according to the relative importance of each component to that activity

For examples of appropriate sporting activities referenced in 3.2.1 and 3.2.2, refer to the DfE's GCSE PE activity list.

For 3.2.2, the learners may be required to make reference to specific types of training in the written exam. To embed their classroom knowledge, learners could be asked to identify health and fitness activities which would help to improve the individual components of skill-related fitness. For example:

agility: plyometric jumps, forward and lateral running

- balance: heel to toe tightrope style walking along a line
- co-ordination: yoga, basketball dribbling, juggling
- power: leg press, barbell curls, squat jump
- reaction time: interval drills
- speed: interval runs, single leg squats, ladder runs

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets
- revision workbook

Other resource:

Hodder Health and Fitness Textbook (available from www.hoddereducation.co.uk)

Useful websites:

www.toptrumps.com

4. Teaching guidance - principles of training

It is important that learners are given the opportunity to gain knowledge and understanding about the principles of training and the principles of FITT, through a combination of class-based and practical learning. For example:

- completing a teacher-led circuit a number of times, with each circuit being adapted, the learners will then try and identify what principles of training have been applied
- learners could prepare a circuit training session, which encapsulates the 5 principles of training (which could be either a written or a practical-based exercise)

Learners could be asked to provide an explanation of each of the 5 principles. For example:

- specificity: developing technique, specific to chosen sport
- progression: progressing training according to individual needs
- overload: incremental increases to workload
- reversibility: reduction in effort will result in reduction in performance
- tedium: using a variety of training methods to prevent boredom, injury and stagnation

External visits/guest speakers:

Approach local fitness trainers to discuss how they change FITT principles in different activities

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets
- revision workbook

Other resource:

Hodder Health and Fitness Textbook (available from <u>www.hoddereducation.co.uk</u>)

Useful websites:

 www.bbc.co.uk/bitesize www.iachieveuk.wordpress.com/courses/health-and-fitness/

5. Teaching guidance - testing and developing components of fitness

It is important that learners are given the opportunity to gain knowledge and practical experience of testing and training methods for health and fitness, through a combination of class-based and practical learning. It is important that learners know how to test different components of health-related and skill-related fitness, and which tests are appropriate for different components. This could initially be done through watching videos of the tests being prepared and carried out, then giving learners the opportunity to practise each test. The learners could then make notes to support their learning.

Examples tests could be:

- health-related:
 - cardiovascular endurance: multi-stage fitness test, 12 minute Cooper run test
 - o muscular strength: handgrip dynamometer
 - o muscular endurance: 2 minute sit-up/push-up test
 - o body composition: body mass index (BMI)
 - o flexibility: sit and reach test
- skill-related:
 - o agility: Illinois agility test
 - o speed: 30 metre sprint test
 - o co-ordination: alternate hand wall toss test
 - o power: vertical jump test
 - o balance: stork stand test
 - o reaction time: ruler drop test

Teachers could set-up a circuit and apply different types of training to each circuit station. Learners could create crib cards for each of the different stations explaining what each type of training is, its key characteristics and what the training type could help develop. After each circuit, the learners could adapt the reps/sets/rest of exercise and rationalise why these changes have been made and how this has changed the FITT principles.

Learners should know that normative data (charts or tables), is usually collated by government sources, industry specialists or sport's governing bodies, following analysis of a wide range of test results in particular areas of health and fitness. These tests are completed by a variety of individuals and compared in terms of age, gender and ethnicity.

Learners should know that test and re-test means to apply the same test to the same person at a different time or on another day to see if the scores are the same, if so, then external reliability is established. Test and re-test can help to measure both validity and reliability.

Learners could be asked to carry out basic fitness tests on each other applying the test and re-test principle and having recorded the results, analyse the data and compare results with normative data available for those areas tested.

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets

5. Teaching guidance - testing and developing components of fitness

Other resources:

Hodder Health and Fitness Textbook (available from www.hoddereducation.co.uk)

Useful websites:

• www.bbc.co.uk/schools/gcsebitesize/pe/exercise/1 exercise principles rev2.shtml

6. Teaching guidance - impact of lifestyle on health and fitness

It is important that learners are given the opportunity to gain knowledge and understanding about lifestyle factors, through a combination of class-based and practical learning. For example:

- learners could use independent learning on iPads/smartphones to research and discuss what active and sedentary lifestyles are, and why they are classified
- the teacher could hold up examples of food/pictures of food, and, as a group, the learners could discuss and label which key nutrient the food comes from
- teachers could ask learners to draw the Eatwell Guide showing the various percentages for each section, this could then be compared to the actual Eatwell Guide to see how close they came
- learners could weigh out how much food they think is in a recommended portion and then weigh out the actual recommended portion and compare the differences, they could also discuss how this portion size may change based on different factors or goals

External visits/guest speakers:

Learners may benefit from listening to local performance coaches/event participants discussing how diets are changed when they are working towards specific goals.

Learners could be asked to outline why each of the aspects listed in 6.1.3 are important in relation to health and fitness. For example:

- sleep: enables the body to repair and be fit for the next day
- cool-down: enables gradual recovery of heart rate and blood pressure
- ice baths: reduces body temperature, inflammation in tissue of muscles
- rehydration: water regulates the body temperature and lubricates joints
- static stretching: enables muscles to recover, less pain and stiffness
- massages: calms the nervous system and improves blood circulation
- rest: allows the muscles to recover and grow

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets

Other resource:

Hodder Health and Fitness Textbook (available from www.hoddereducation.co.uk)

Useful websites:

- www.nhs.uk/livewell/Pages/Livewellhub.aspx
- www.food.gov.uk/
- www.bhf.org.uk/
- www.nhs.uk/Livewell/Goodfood/Pages/the-eatwell-guide.aspx

7. Teaching guidance - applying health and fitness analysis and setting goals

It is important that learners are given the opportunity to gain knowledge and practical experience of lifestyle analysis, through a combination of class-based and practical learning. For example:

- learners could research different lifestyle analysis tools, including PAR-Qs, lifestyle questionnaires
 and food diaries, they could research what each one contains, what professions may use it for and
 why they are important, learners could then apply them to one of their peers and undertake a full
 lifestyle consultation
- learners should know about what each section of SMART means, this could be done as
 independent research or as a class-led activity, they could then try and set a SMART goal for
 themselves and one of their peers and evaluate if each goal meets the requirements of SMART

Resources:

Classroom teaching pack:

- PowerPoint
- lesson plans
- scheme of work
- worksheets

Other resource:

Hodder Health and Fitness Textbook (available from www.hoddereducation.co.uk)

Useful websites:

• www.active.com/fitness/articles/how-to-set-s-m-a-r-t-goals

8. Teaching guidance - structure of a health and fitness programme and how to prepare safely

It is important that learners are given the opportunity to gain knowledge and practical experience of warm-ups, cool-downs and the main activities within a health and fitness programme in a safe manner through a combination of class-based and practical learning.

Learners could research how and why we complete a warm-up and cool-down. Learners could select and perform appropriate warm-up activities and record the short-term effects they have on the body.

Learners could put together a session plan to put into action.

Learners could participate in a range of activities and different types of training that could be used within a health and fitness programme. Learners could then suggest which activity best suits improvements in specific components of health and skill-related fitness. For example:

cardiovascular endurance: continuous training, fartlek training, circuit training muscular strength: weight training, circuit training, isometric exercise, yoga muscular endurance: body weight squats, sit-ups, push-ups, walking lunges flexibility: static stretching, dynamic stretching, passive stretching body composition: burpees, push-ups, interval training, body weight squats

The learners could suggest how these approaches could be adapted using the FITT principles and perform them.

Resources:

Classroom teaching pack:

PowerPoint lesson plans scheme of work worksheets

Other resource:

Hodder Health and Fitness Textbook (available from www.hoddereducation.co.uk)

Useful websites:

www.nhs.uk

Synoptic connections

Synoptic assessment requires learners to combine elements of their learning and show accumulated knowledge and understanding across the qualification content. It enables learners to evidence their capability to integrate and apply knowledge, understanding, and skills gained with breadth and depth in context

It is therefore essential when planning for teaching and throughout delivery that the interdependencies and links build across the content of the qualification and are highlighted and reinforced.

The qualification comprises 8 content areas in a single unit model. All content is mandatory and must be taught.

The teaching content does not have to be delivered in a linear way; the unit contents are interdependent in knowledge, skills, and concepts.

Teachers may take a synoptic approach across the qualification. This will enable learners to be able to apply theories and concepts from across the qualification specification in context to skills-based situations. Through combining content and developing holistic connections, learners will be able to demonstrate and evidence their full knowledge and understanding of the subject area and health and fitness sector.

Learners will have the opportunity to identify relevant study skills and reflect upon their preferred learning style throughout the qualification.

Section 3: additional information

School accountability measures (performance points)

This V Cert qualification has been developed to meet the criteria set by the Department for Education (DfE) to be included in the key stage 4 performance tables. Each grade has been assigned a points value. Please check the Register of Regulated Qualifications website <u>register.ofqual.gov.uk</u> for further information.

Discounting

If a learner is taking a GCSE and V Cert in the same year with the same discount code, such as GCSE Physical Education and an NCFE V Cert in health and fitness the first entry will count. However, because we do not upload V Cert data to the DfE until August, the exam entry for V Certs is classed as the date the centre claims certification.

- if the centre delivers the GCSE Physical Education exam first and then claims the V Cert afterwards, the GCSE will count
- if the centre delivers the V Cert first and claims the certificate before the GCSE Physical Education exam is sat, the V Cert will count
- if the centre delivers the GCSE and the exam is sat on the same day the V Cert certificate is claimed, then it is the best result that counts

Discount codes for V Cert qualifications can be found on the NCFE website. We advise centres to refer to the <u>Discounting and Early Entry Guidance</u> document provided by the DfE. For more information on discounting please contact the DfE directly.

Qualification dates

Regulated qualifications have operational end dates and certification end dates.

We review qualifications regularly, working with sector representatives, vocational experts and stakeholders to make any changes necessary to meet sector needs and to reflect recent developments.

If a decision is made to withdraw a qualification, we will set an operational end date and provide reasonable notice to our centres. We will also take all reasonable steps to protect the interest of learners.

An operational end date will only show on the Ofqual Register of Regulated Qualifications register.ofqual.gov.uk if a decision has been made to withdraw a qualification. After this date we can no longer accept learner registrations. However, certification is allowed until the certification end date so that learners have time to complete any programmes of study. The certification end date will only show on the Ofqual Register once an operational end date has been set. After this date we can no longer process certification claims.

Where a qualification has an external assessment, this can only be taken up to the last assessment date set by us. No external assessments will be permitted after this date so learners will need to be entered in sufficient time.

Support materials

The following support materials are available to assist with the delivery of this qualification and are available on the NCFE website:

learning resources qualification factsheet

Other support materials

The resources and materials used in the delivery of this qualification must be age-appropriate and due consideration should be given to the wellbeing and safeguarding of learners in line with your centre's safeguarding policy when developing or selecting delivery materials.

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Contact us

NCFE Q6 Quorum Park Benton Lane Newcastle upon Tyne NE12 8BT

Tel: 0191 239 8000* Fax: 0191 239 8001

Email: customersupport@ncfe.org.uk

Website www.ncfe.org.uk

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Version 1.0 November 2021

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