

apprenticeship FRAMEWORK

Maritime Occupations (England)

IMPORTANT NOTIFICATION FOR ALL APPRENTICESHIP STARTS FROM 6 APRIL 2015

Modifications to SASE came into effect on 6th April 2015. These changes **ONLY** relate to the Transferable Skills requirements of a framework and they **ONLY** apply to new Apprenticeship starts on, or after, 6th April 2015. Apprenticeships starts before this date must continue to meet the 2013 SASE requirements for Transferable Skills. For more details of the changes and how they will affect new Apprenticeship starts, please read the following preface page to the framework document.

NB: Please check the "Revising a Framework" section for information on any additional changes that may have been made to this framework.

Latest framework version?

Please use this link to see if this is the latest issued version of this framework:

afo.sscalliance.org/frameworkslibrary/index.cfm?id=FR03245

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CHANGES TO TRANSFERABLE SKILLS REQUIREMENTS FOR APPRENTICESHIP STARTS FROM 6TH APRIL 2015

Modifications to SASE came into effect on 6th April 2015. The changes ONLY relate to the Transferable Skills requirements of a framework and they ONLY apply to new Apprenticeship starts on, or after, 6th April 2015. Apprenticeships started before this date must continue to meet the 2013 SASE requirements for Transferable Skills.

The modifications removed the “5 year rule”, meaning that acceptable qualifications, achieved before September 2012, are now in scope. This includes iGCSEs, A and AS Levels, O Levels and Key Skills. However, there are still minimum grade/level requirements that need to be achieved, depending on the level of Apprenticeship being undertaken. There have also been some changes to the minimum grade/level requirements which, in summary are:

Intermediate Apprenticeship:	GCSE/iGCSE/A and AS Levels - minimum acceptable grade is now E, irrespective of achievement date (for ALL acceptable GCSEs/iGCSEs/A/AS Levels)
	Key Skills - minimum acceptable is Level 1, irrespective of achievement date
	O Levels – minimum acceptable grade is C, irrespective of achievement date
Advanced Apprenticeship:	GCSE/iGCSE - minimum acceptable grade is now C, irrespective of achievement date (for ALL acceptable GCSEs/iGCSEs)
	A/AS Level - minimum acceptable is grade E, irrespective of achievement date
	Key Skills - minimum acceptable is Level 2, irrespective of achievement date
	O Levels - minimum acceptable grade is C, irrespective of achievement date
Higher Apprenticeship:	There remains no mandatory requirement for Transferable Skills qualifications to be achieved.

Please note that some frameworks may have grade/level requirements that are above the SASE minimum requirements. Please check the framework to ascertain where this is the case and/or check directly with the specific Issuing Authority responsible for the framework.

The updated version of SASE, and guidance documents, can be accessed here: <http://afo.sscalliance.org/SASE>

PLEASE NOTE THAT THE NEW REQUIREMENTS FOR TRANSFERABLE SKILLS, AS DETAILED ABOVE, OVERRIDE THE NOTES AND GRADES/LEVELS ASSOCIATED WITH THE TRANSFERABLE SKILLS TABLES, WITHIN THIS DOCUMENT. Until the Transferable Skills tables can be updated, any references to “**achieved before Sept 2012 and within 5 years of starting Apprenticeship**” or “**achieved before September 2012, otherwise at any time prior to starting Apprenticeship**” can now be ignored.

Over the next few months, the Transferable Skills section within AFO will be amended to reflect the SASE modifications and all current frameworks will be updated and reissued to incorporate these changes. In the meantime, if you are in any doubt as to the requirements of any framework then please contact the relevant Issuing Authority.

Maritime Occupations (England)

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Framework summary

Maritime Occupations

Intermediate Level Apprenticeship for Maritime Occupations

This framework includes information on Personal Learning and Thinking Skills

Pathways for this framework at level 2 include:

Pathway 1: Rivers and Inland Waterways including limited distances to sea (Boatmaster tier 1 level 2)

Competence qualifications available to this pathway:

C1 - n/a

Knowledge qualifications available to this pathway:

K1 - n/a

Combined qualifications available to this pathway:

B1 - Level 2 Diploma in Maritime Studies: (Rivers, Inland Waterways and limited distances to sea)

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 2: Sea Fishing

Competence qualifications available to this pathway:

C1 - N/A

Knowledge qualifications available to this pathway:

K1 - N/A

Combined qualifications available to this pathway:

B1 - - Level Two Diploma in Maritime Studies: Sea Fishing

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 3: Able seafarer/tug rating (deck)

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level Two Certificate in Maritime Studies: able seafarer/tug rating (deck)

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 4: Able seafarer/tug rating (engine room)

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level two Diploma in Maritime Studies: able seafarer/tug rating (engine room)

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 5: Port Operations

Competence qualifications available to this pathway:

C1 - Level Two NVQ Certificate in Port Operations

Knowledge qualifications available to this pathway:

K1 - Level Two Certificate in Stevedoring Essentials

Combined qualifications available to this pathway:

N/A

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 6: Workboat operations

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level 2 Diploma in Maritime Studies: Workboats

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 7: Marinas and Boatyards

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Diploma in Maritime Studies: Marinas and Boatyards

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Maritime Occupations (England)

This framework includes information on Personal Learning and Thinking Skills

Pathways for this framework at level 3 include:

Pathway 1: Merchant Navy(deck)

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level 3 Diploma in Shipping and Maritime Operations:deck pathway

B2 - Level 3 Diploma in Nautical Science

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 2: Merchant Navy (engineering)

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level 3 Diploma in Shipping and Maritime Operations (engineering pathway)

B2 - Level 3 Diploma in Marine Engineering

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 3: Officer of the watch on Merchant Vessels of less than 500 gross tonnage (near coastal) including tugs

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level 3 Diploma In Maritime Studies: Officer of the Watch on Merchant Vessels of less than 500 gross tonnage (Near Coastal)

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Pathway 4: Officer of the watch on merchant vessels of less than 3,000 gross tonnage (near coastal) including tugs

Competence qualifications available to this pathway:

N/A

Knowledge qualifications available to this pathway:

N/A

Combined qualifications available to this pathway:

B1 - Level 3 Diploma in Maritime Studies: officer of the watch on merchant vessels less than 3,000 gross tonnage (near coastal)

This pathway also contains information on:

- Employee rights and responsibilities
- Functional skills

Framework information

Information on the Issuing Authority for this framework:

Skills for Logistics

The Apprenticeship sector for occupations in freight logistics and Maritime.

Issue number: 21	This framework includes:
Framework ID: FR03245	Level 2 Level 3
Date this framework is to be reviewed by: 31/12/2015	This framework is for use in: England

Short description

The Maritime sector offers a wide range of opportunities for those who are seeking a career that is closely associated with the sea, ports, rivers and waterways. This framework will provide both intermediate level and advanced level apprenticeship routes which will enable new entrants to work safely and effectively on board a vessel or in a port and undertake a number of job roles depending on the pathway chosen. At the intermediate level, these will include assisting the deck and/ or bridge team, assisting in the engine room, hauling fishing gear and stowing the catch, loading and unloading cargo, operating port plant and equipment, helping with management of passengers and carrying out various duties on deck and in the engine room and with its associated systems. It covers the essential competencies and underpinning knowledge which lead to a Level Two Maritime Studies Certificate or Diploma. or a Level Two NVQ Certificate in Port Operations and Level Two Certificate in Stevedoring essentials if the ports' pathway is followed.

At the advanced level apprentices will either undertake duties relating to assisting on the bridge with navigation and look out, berthing and mooring operations, crew and vessel safety(pathway 1) or assisting in the engine room with routine maintenance, repair and oversight of a vessel's engines and ancilliary mechanical and electrical systems,(pathway 2). Successful completers will either work in the shipping industry as a qualified seafarer either on deck (pathway 1) or in the engine room (pathway 2), or more

likely proceed to a higher level apprenticeship which will lead to becoming a junior Merchant Navy Officer, working either on the bridge or in the engine room.

Contact information

Proposer of this framework

British Marine Federation, British Tugowners Association, Company of Watermen and Lightermen, Merchant Navy Training Board, Passenger Boat Association, Sea Fish Industry Authority. UK Major Ports Group, British Ports Association, Ports Skills and Safety. The members of these organisations have an aging workforce and are seeking ways of attracting good quality new entrants, who will make a career in the sector. The structure that an apprenticeship framework provides will enable these sectors to meet those needs.

Developer of this framework

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Issuing Authority's contact details

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Revising a framework

Contact details

Who is making this revision: Iain Mackinnon
Your organisation: Maritime Skills Alliance
Your email address: iain@maritimeskills.org

Why this framework is being revised

The previous version of the framework had ICT skills as mandatory, but feedback from training providers is that this is proving a barrier to take-up for many employers which have no business need for operatives to use ICT. We are therefore removing it as a mandatory requirement - but continue to recommend its inclusion.

Summary of changes made to this framework

Removal of ICT as a mandatory requirement.

Qualifications removed

ICT

Qualifications added

None

Qualifications that have been extended

None

Purpose of this framework

Summary of the purpose of the framework

An Apprenticeship is a job with an accompanying skills development programme under an Apprenticeship Agreement designed by employers in the sector. It allows the apprentice to gain technical knowledge and real practical experience, along with functional and personal skills, required for their immediate job and future career. These are acquired through a mix of learning in the workplace, formal off the job training and the opportunity to practice and embed new skills in a real work context. This broader mix differentiates the Apprenticeship experience from training delivered to meet narrowly focused job needs. All apprentices commencing their Apprenticeship must have an Apprenticeship Agreement between the employer and the apprentice. This can be used to reinforce the understanding of the requirements of the Apprenticeship.

On completion of the Apprenticeship the apprentice must be able to undertake the full range of duties, in the range of circumstances appropriate to the job, confidently and competently to the standard set by the industry.

The Maritime sector is a major contributor to the UK Balance of payments. Every year over 90% of all goods that are imported or exported pass through the country's ports to be carried on a cargo or container ship or other specialist vessel. Cruise ships and ferries provide 51 million passenger journeys annually and the sector directly employs 250,000 people with another 200,000 working in related activities. Shipping as a method of transport carries a low carbon footprint and the latest propulsion units are reducing it even further. It is therefore a sector with a secure future that offers a wide range of opportunities for those who wish to work within it. In particular:

- The low carbon agenda is increasing the attractiveness of water born transportation including the use of rivers and inland waterways
- Development of off shore energy sources require support services provided by the sector
- The sector has an aging workforce, which means that there are an increasing number of opportunities for new entrants
- Apprenticeship pathways now provide, in some cases for the first time, clearly signed entry routes into the sector with significant opportunities for progression and transfer, thereby addressing the identified need to attract and retain new entrants.
- Apprenticeships contribute towards meeting the skills priorities for England - Skills for Sustainable Growth
<http://www.bis.gov.uk/assets/biscore/further-education-skills/docs/s/10-1273-skills-for-sustainable-growth-strategy-summary>

A Maritime Apprenticeship is a job with an accompanying skills development programme

designed by employers in the sector. It allows the apprentice to gain technical knowledge and real practical experience, along with functional and personal skills, required for their immediate job and future career. These are acquired through a mix of learning in the workplace, formal off the job training and the opportunity to practice and embed new skills in a real work context. This broader mix differentiates the Apprenticeship experience from training delivered to meet narrowly focused job needs.

Maritime apprenticeships offer the opportunity to undertake a variety of job roles depending on the pathway chosen. At intermediate level, these could include assisting on the bridge or in the engine room of a vessel, hauling and storing the fishing catch, helping to load/unload cargo or passengers, and carrying out various duties on deck and in the engine room. For the ports pathway 5 it will include operating port plant and lifting equipment on the quay, in warehouses and terminals with their associated systems. Advanced level Apprentices will undertake job roles associated with assisting on the bridge, taking a watch on the bridge, navigation and look out duties, berthing and mooring operations, crew and vessel safety or assisting in the engine room with routine maintenance, repair and oversight of a vessel's engines and ancillary mechanical and electrical systems.

However it must be recognised that the workplace environment can be unpredictable and dangerous as well as exciting and a minimum standard of health and fitness is required to be able to cope with adverse conditions at sea..

Aims and objectives of this framework (England)

The aim of this framework is to attract new people into the maritime sector from a wide range of backgrounds to support planned growth and to replace those who leave or retire and to upskill the existing workforce in England. It will do this by:

1. Offering access to a Maritime Occupations Intermediate Level and Advanced Level Apprenticeship with pathways covering a wider range of job roles than ever before
2. Using work based learning as the prime method to acquire the skills and underpinning knowledge necessary to safely undertake a number of job roles on board a vessel, on quays, in warehouses and at port terminals
3. Attracting more applicants from women and other under-represented groups into the sector;
4. Developing problem solving, communication, team working, literacy, numeracy and ICT skills, which are central to effective performance in a work role
5. Awarding achievement with an apprenticeship completion certificate and a recognised Level 2 or Level 3 qualification that is valued by employers
6. Providing enhanced opportunities for progression both upwards and across the sector

It will meet identified demand for the various pathways as follows:

- Rivers and Inland Waterways included limited distances to sea (Boatmaster tier 1 level 2) - 40 apprentices per year, but likely to increase as the new qualification becomes better known. In addition there is now likely to be further significant increases because of extra demand for qualified boatmasters arising from work for the planned Thames sewerage tunnel.
- Seafishing - 50 apprentices per year
- Able seafarer/tug rating (deck) - initially 25 per year increasing to 35 over the next 5 years
- Able seafarer/tug rating (engine room) - initially 18 per year increasing to 25 over the next 5 years
- Port Operations - approximately 30 per year
- Workboats - approximately 20 per year
- Marinas and Boatyards - approximately 30 per year
- Merchant Navy (deck) - up to 250 per year. This is the major alternative route to becoming a junior Merchant Navy Deck Officer
- Merchant Navy (engineering) - up to 150 per year. This is the major alternative route to becoming a junior Merchant Navy Engineering Officer
- Officer of the Watch on vessels up to 500 gross tonnage (including tugs) operating in near coastal waters - initially 10 per year increasing to 20 over the next five years
- Officer of the Watch on vessels up to 3,000 gross tonnage (including tugs) operating in near coastal waters - initially 10 per year increasing to 20 over the next five years

This information has been provided by industry representative organisations and takes account of historical recruitment patterns. In the case of the able seafarer/tug rating (deck), able seafarer/tug rating (engine room), Officer of the Watch on vessels up to 500 gross tonnage (including tugs) operating in near coastal waters pathways and Officer of the Watch on vessels up to 3,000 gross tonnage (including tugs) operating in near coastal waters; these are based on new qualifications and the estimates are based on industry's assessment of likely demand

A well attended Sector Qualifications Strategy (SQS) consultation meeting held in January 2010 also confirmed support for a maritime wide apprenticeship. This was further confirmed at a Seminar held in October 2012, which was attended by around 100 delegates from across the sector to hear specifically about the apprenticeships that were now available and how they could be used. It was evident from comments made that as awareness of the pathways grows, so will take up. Other pathways will be added as and when demand has been established.

The development of apprenticeship pathways for parts of the sector, where none previously existed, supports the Government's strategy set out in 'Skills for Sustainable Growth'

Entry conditions for this framework

Apprentices should be self motivated, keen to learn and able to communicate effectively. In addition:

For seafarer intermediate pathways 1 to 4 and 6, and Advanced pathways 1 to 4 apprentices must be:

- Able to pass the Maritime and Coastguard Agency (MCA) approved medical fitness test evidenced by document [ENG1 or ML5]. This is a regulatory requirement for all seafarers in the UK
- Prepared to work long hours or shifts
- Willing to readily respond to orders
- Willing to live away from home on board a vessel for a period (depending on the pathway chosen)

Whilst there are no minimum academic entry requirements for an intermediate apprenticeship, an interest in science and maths would be useful for those wishing to pursue the boatmasters, and the able seafarer (deck) and (engine) pathways. GCSE passes in English, Maths and Science at grade C or higher are required for the advanced level Merchant Navy 'deck and 'engineering' apprenticeship pathways. It will also be necessary to complete or have completed the four MCA regulatory safety courses for seafarers prior to entering advanced apprenticeship pathways

For the Ports intermediate pathway 5 apprentices must be

- Able to meet standards of medical fitness appropriate to the operation of relevant lifting equipment and cargo handling duties:
- Capable of meeting health and safety requirements of workers in the port industry
- Willing to work in shifts
- Willing to work in an outdoor environment

For pathway 7, Marinas and Boatyards, apprentices must be willing to

- work outdoors
- work shifts
- work on and near water (ability to swim is an advantage).

Level 2

Title for this framework at level 2

Intermediate Level Apprenticeship for Maritime Occupations

Pathways for this framework at level 2

- | | |
|------------|--|
| Pathway 1: | Rivers and Inland Waterways including limited distances to sea (Boatmaster tier 1 level 2) |
| Pathway 2: | Sea Fishing |
| Pathway 3: | Able seafarer/tug rating (deck) |
| Pathway 4: | Able seafarer/tug rating (engine room) |
| Pathway 5: | Port Operations |
| Pathway 6: | Workboat operations |
| Pathway 7: | Marinas and Boatyards |

Level 2, Pathway 1: Rivers and Inland Waterways including limited distances to sea (Boatmaster tier 1 level 2)

Description of this pathway

Rivers and Inland Waterways including limited distances to sea (Boatmaster Tier 1 Level 2)

The total number of credits that an apprentice must attain on the Qualifications and Credit Framework (QCF) for this pathway is 61 or 62 if the two credit 'vessel fire prevention and firefighting STCW' unit (Ref: T/502/5920) is taken instead of the one credit unit. 'Maritime Fire Prevention and Fire Actions' (Ref:D/602/3878). This will be appropriate for those who wish to work on vessels proceeding to sea outside categorised waters. The credits are achieved through the completion of 29 knowledge credits and 17 competence credits (18 if the two credit unit referred to above is taken) plus 15 transferable (functional) skills credits. This will take an apprentice a minimum period of 12 months

Entry requirements for this pathway in addition to the framework entry requirements

General entry requirements apply.

Job title(s)	Job role(s)
Trainee crew member	Assisting with: steering and lookout; mooring; management of passengers and cargo; operating and maintaining deck gear

Qualifications

Competence qualifications available to this pathway

C1 - n/a					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	n/a	n/a			N/A

Knowledge qualifications available to this pathway

K1 - n/a					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	n/a	n/a			N/A

Combined qualifications available to this pathway

B1 - Level 2 Diploma in Maritime Studies: (Rivers, Inland Waterways and limited distances to sea)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	601/0021/7	SQA	46	453	N/A

Relationship between competence and knowledge qualifications

The qualification contains mandatory units comprising a mixture of learning outcomes, some of which relate to underpinning knowledge, whilst others cover competence. Each learning outcome is separately assessed and it is therefore possible to determine the number of credits for each component. An analysis showing the breakdown of the credit content of each unit that comprise this pathway is as follows:

Unit 1: maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits.

Unit 2 maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits.

Unit 3: vessel ropework anchoring and mooring operations: (Knowledge 2 credits, competence 3 credit) total = 5 credits.

Unit 4: securing a vessel for passage: (Knowledge 1 credit, competence 2 credit)s total = 3 credits.

Unit 5: vessel construction and stability: (Knowledge 5 credits, competence 0 credit) total = 5 credits.

Unit 7: basic vessel engineering systems: (Knowledge 2 credits, competence 1 credit) total = 3 credits.

Unit 8: maintaining vessel machinery for safe operation: (Knowledge 2 credits, competence 1 credit) total = 3 credits.

Unit 9: vessel repair and maintenance: (Knowledge 2 credits, competence 3 credits) total = 5 credits.

Unit 10: assist with a vessel's navigational watch: (Knowledge 2 credits, competence 1 credit) total = 3 credits.

Unit 11: vessel navigation and tides:(Knowledge 4 credits, competence 2 credits) total = 6 credits.

Unit 13: survival in the water during maritime emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 14: vessel fire prevention and fire fighting (STCW) * (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 15: maritime security: (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 16: emergency first aid in response to maritime accidents or medical emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 17: maritime fire prevention and fire actions (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 21: maintain your own work practice: (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 20: communicate using equipment and visual means: (Knowledge 1 credit, competence 1 credit) total = 2 credits.

*f'or those working on vessels proceeding to sea outside categorised waters, this unit is taken instead of unit 17

The qualification for this pathway therefore contains a minimum of 29 knowledge based credits and 17 competence based credits, making a total of 46, or 47 if the unit 14 'vessel fire prevention and fire actions (STCW)' unit is substituted for unit 17 'maritime fire prevention and fire actions'. This will also increase the number of competence credits to 18. In addition there are 15 credits for functional or key skills making a grand total of 61 credits for this pathway, or 62 if unit 14 is substituted for unit 17 as indicated above. To achieve the qualification will require a minimum of 453 GLH made up of 266 off job GLH and 187 on job GLH.

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	1	5
GCSE qualification in ICT (with enhanced functional content)	E	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or... [*]	1	5
GCSE qualification in ICT [*]	C	N/A
A' Level or AS Level qualification in ICT [*]	E	N/A
GCSE or O'Level qualification in ICT ^{**}	A	N/A
A' Level or AS Level qualification in ICT ^{**}	A	N/A

^{*} achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

^{**} achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

ICT is included in this pathway because employers see it as relevant to effective job performance for the roles at this level.

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- direct from school or college

- level 1 Maritime Skills Award/Certificate
- level 2 Maritime Studies Introductory Award (which will also give credit towards the Maritime Studies Certificate and or Diploma)
- the Diploma in Travel and Tourism with 'Passenger Shipping' as ASL
- previous time spent in the Sea Cadets or Sea Scouts

Progression routes from this apprenticeship::

- An MCA Certificated Boatmaster after completion of the necessary sea time
- An Advanced Level Maritime Apprenticeship with a choice of pathways

Into jobs:

- Competent crew member
- Boatmaster of a domestic vessel

Continuing professional development:

- qualify for specialist endorsements for specific operations. These include: carrying general cargo, carrying cargos of dangerous goods; carrying oil and chemical bulk cargos; carrying up to 250 passengers; carrying more than 250 passengers; towing and pushing; dredging; operating fast craft carrying passengers; Ro Ro operations

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work* and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. All of the ERR related learning is accredited through the following units that are contained within the Level 2 Certificate or Diploma in Maritime Studies: Ref: 600/3101/3

- 'maritime employment, environmental and health and safety practice' Ref: Y/501/2738
- 'maritime sector overview' Ref: D/501/3739

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 2, Pathway 2: Sea Fishing

Description of this pathway

Sea Fishing (deck hand)

The total number of credits that an apprentice must attain on the Qualifications and Credit Framework (QCF) for this pathway is 49. This is achieved through the completion of 22 knowledge and 17 competence credits plus 10 transferable (functional) skills credits. This will take an apprentice a minimum period of 12 months.

Entry requirements for this pathway in addition to the framework entry requirements

In addition to the general entry requirements, apprentices following this pathway must be prepared to work long hours, and possibly to live away from home on board a vessel for periods, often under difficult conditions

Job title(s)	Job role(s)
Trainee Deck Hand (deckie learner)	Assisting with: steering, lookout and safe navigation; operating and maintaining deck and specialist machinery; mooring and anchoring; deploying and hauling fishing gear; handling and stowing the catch; care and control of the fishroom; cooking for the crew

Qualifications

Competence qualifications available to this pathway

C1 - N/A					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	N/A	N/A	N/A		N/A

Knowledge qualifications available to this pathway

K1 - N/A					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	N/A	N/A			N/A

Combined qualifications available to this pathway

B1 - - Level Two Diploma in Maritime Studies: Sea Fishing					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/3122/0	SQA	39	390	N/A

Relationship between competence and knowledge qualifications

The qualification contains mandatory units comprising a mixture of learning outcomes, some of which relate to underpinning knowledge, whilst others cover competence. Each learning outcome is separately assessed and it is therefore possible to determine the number of credits for each component. An analysis showing the breakdown of the credit content of each unit that comprise this pathway is set out below:

Unit 13: survival in the water during maritime emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit. .

Unit 16: emergency first aid in response to maritime accidents or medical emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 21: maintain your own work practice: (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 15: maritime security: (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 20: communicate using equipment and visual means: (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 2 maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits.

Unit 1: maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits.

Unit 17: maritime fire prevention and fire actions (Knowledge 1 credit, competence 0 credit) total = 1 credit .

Unit 14: vessel fire prevention and fire fighting (STCW) * - (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 3: vessel ropework anchoring and mooring operations: (Knowledge 2 credits, competence 3 credit) total = 5 credits.

Unit 4: securing a vessel for passage: (Knowledge 1 credit, competence 2 credit)s total = 3 credits.

Unit 5: vessel construction and stability: (Knowledge 5 credits, competence 0 credit) total = 5 credits.

Unit 10: assist with a vessel's navigational watch: (Knowledge 2 credits, competence 1 credit) total = 3 credits.

Unit 18 assemble and operate fishing gear (knowledge 1 credit, competence 4 credits) total = 5 credits.

Unit 19 receiving handling and stowing the catch (Knowledge 2 credits, competence 3 credits) total = 5 credits.

Optional unit to be taken if required:

Unit 21 assist with cooking on a fishing vessel (knowledge 1 credit, competence 1 credit) total = 2 credits.

The qualification for this pathway therefore comprises a minimum of 22 knowledge based credits and 17 competence based credits. This gives a total of 39 credits. However If unit 14 'vessel fire prevention and firefighting' is substituted for unit 17 'maritime fire preventions and fire actions' to meet the requirements of International Regulations applicable to vessels exceeding 16.5 metres in length, this will increase the total number of credits to 40 and the competence based credits to 18. In addition there are a further 10 credits for functional or key skills making a grand total of 49. ICT is not included in this pathway because the industry does not regard it as contributing to effective job performance at this level. To achieve the qualification will require a minimum of 390 GLH made up of 204 off Job GLH and 186 on job GLH.

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

ICT is not included in this pathway because the job roles do not require ICT skills and the fishing industry does regard them as contributing to more effective job performance

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- direct from school or college
- Level 1 Maritime Studies Award/Certificate

- level 2 Maritime Studies Introductory Award (which will also give credit towards the Maritime Studies Certificate)
- Seafish's 'Introduction to Commercial Fishing' course
- Seafish's 'basic safety training' course
- previous time spent in the Sea Cadets or Sea Scouts

Progression routes from this apprenticeship:

An advanced level apprenticeship:

- an Advanced Maritime Apprenticeship with a choice of pathways

Into Jobs:

- Competent deck hand
- inshore Skipper in charge of smaller vessels under 16.5m that go to sea to catch fish.
- full details of careers progression routes in the Fishing industry can be seen on the following link: www.seafish.org/sea/training.asp?p=ef

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity training* must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. All of the ERR related learning is accredited through the following units contained within the Level 2 Diploma in Maritime Studies:

Ref:600/3122/0

- 'maritime employment, environmental and health and safety practice' Ref: Y/501/2738
- 'maritime sector overview' Ref: D/501/2739

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 2, Pathway 3: Able seafarer/tug rating (deck)

Description of this pathway

Able seafarer/tug rating (deck)

The total number of credits that an apprentice must attain on the Qualifications and Credit Framework (QCF) for this pathway is 41. The credits are achieved through the completion of 19 knowledge and 12 competence credits plus 10 transferable (functional) skills credits. This will take an apprentice a minimum period of 12 months.

Entry requirements for this pathway in addition to the framework entry requirements

All general entry requirements apply, plus the willingness to spend periods away from home on board a vessel as required.

Job title(s)	Job role(s)
Trainee deck/tug rating	assisting with: steering and lookout, safe navigation, operating and maintaining deck and specialist machinery, mooring and anchoring

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level Two Certificate in Maritime Studies: able seafarer/tug rating (deck)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/3100/1	SQA	31	294	N/A

Relationship between competence and knowledge qualifications

The qualifications contains mandatory units comprising a mixture of learning outcomes, some of which relate to underpinning knowledge, whilst others cover competence. Each learning outcome is separately assessed and it is therefore possible to determine the number of credits for each component. An analysis showing the breakdown of the credit content of each unit that comprise this pathway is set out below:

Unit 13: survival in the water during maritime emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 16: emergency first aid in response to maritime accidents or medical emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 15: maritime security: (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 2 maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits.

Unit 1: maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits.

Unit 14: vessel fire prevention and fire fighting (STCW) * - (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 3: vessel ropework anchoring and mooring operations: (Knowledge 2 credits, competence 3 credit) total = 5 credits.

Unit 4: securing a vessel for passage: (Knowledge 1 credit, competence 2 credit)s total = 3 credits.

Unit 5: vessel construction and stability: (Knowledge 5 credits, competence 0 credit) total = 5 credits.

Unit 24: vessel ropework, anchoring and mooring activities (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 25: assisting with securing a vessel for passage (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 23: basic vessel watchkeeping (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 29: control operation of survival craft and rescue boats (Knowledge 1 credit, competence 2 credits) total = 3 credits.

The qualifications for this pathway therefore comprise 19 knowledge based credits and 12 competence based credits. This gives a total of 31 credits. In addition there are 10 credits for functional or key skills, making a grand total of 41 credits. To achieve the qualification will require a minimum total of 294 GLH made up of 176 off job GLH and 118 on job GLH.

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

ICT is not included in this pathway as it is not required for effective job performance or relevant to the skills required for the job roles covered by this pathway

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- direct from school or college

- level 1 Maritime Skills Award/Certificate
- level 2 Maritime Studies Introductory Award (which also will give credit towards the Maritime Studies Certificate)
- the Diploma in Travel and Tourism with 'Passenger Shipping' as ASL
- previous time spent in the Sea Cadets or Sea Scouts

Progression routes from this apprenticeship:

- MCA certification as an able seafarer after completion of the required seetime
- An advanced level apprenticeship: (an Advanced Maritime Apprenticeship with a choice of pathways)

Into jobs:

- Seaman
- Able seafarer (deck)
- Bosun, senior rating on superyachts and other vessels requiring limited certification

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010* and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. All of the ERR related learning is accredited through the following units contained within the Level 2 Certificate in Maritime Studies:(able seafarer/tug rating (deck): Ref:600/3100/1

' maritime employment, environmental and health and safety practice' Ref: Y/501/2738

' maritime sector overview'Ref:D/501/2739

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

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<http://acecerts.co.uk>

Level 2, Pathway 4: Able seafarer/tug rating (engine room)

Description of this pathway

Able seafarer/tug rating (engine room)

The total number of credits that an apprentice must attain on the Qualifications and Credit Framework (QCF) for this pathway is 55. The credits are achieved through the completion of 25 knowledge and 20 competence credits, plus 10 transferable (functional) skills credits. This will take an apprentice a minimum period of 12 months

Entry requirements for this pathway in addition to the framework entry requirements

All general entry requirements apply, plus the willingness to spend periods away from home on board a vessel as required.

Job title(s)	Job role(s)
Trainee rating/tug rating (engine room)	ensuring the continuous running of machinery and equipment on board a vessel, organising routine maintenance procedures and necessary repairs in the engine-room, the power plant and auxiliary machinery

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level two Diploma in Maritime Studies: able seafarer/tug rating (engine room)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/2790/3	SQA	45	279	N/A

Relationship between competence and knowledge qualifications

The qualification contains mandatory units comprising a mixture of learning outcomes, some of which relate to underpinning knowledge, whilst others cover competence. Each learning outcome is separately assessed and it is therefore possible to determine the number of credits for each component. An analysis showing the breakdown of the credit content of each unit that comprise this pathway is set out below:

Unit 13: survival in the water during maritime emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 16: emergency first aid in response to maritime accidents or medical emergencies (Knowledge 0 credit, competence 1 credit) total = 1 credit.

Unit 15: maritime security: (Knowledge 1 credit, competence 0 credit) total = 1 credit.

Unit 2 maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits.

Unit 1: maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits.

Unit 14: vessel fire prevention and fire fighting (STCW) * - (Knowledge 1 credit, competence 1 credit) total = 2 credits.

Unit 26: safe operation of merchant vessel machinery systems (Knowledge 4 credits, competence 0 credits) total = 4 credits.

Unit 27: electrical safety on merchant vessels (Knowledge 2 credits, competence 0 credit) total = 2 credits.

Unit 28: producing components using hand fitting techniques (Knowledge 6 credits, competence 8 credits) total = 14 credits.

Unit 76: preparing and using lathe for turning operations (Knowledge 6 credits, competence 9 credits) total = 15 credits.

Optional units which will be taken at the request of employers in the Merchant Marine:

Units 29: control operation of survival craft and rescue boats (Knowledge 1 credit, competence 2 credits) total = 3 credits. Requiring 8 off job GLH and 18 on job GLH.

Unit 75: maintaining electrical equipment and systems (Knowledge 10 credits, competence 5 credits) total 15 credits. Requiring 90 off job GLH and 48 hours on job gLH

Optional units which will be taken at the request of employers in the tugs sector:

Unit 24: vessel ropework, anchoring and mooring activities (Knowledge 1 credits, competence 1 credit) total = 2 credits. Requiring 8 off job GLH and 10 on job GLH

Unit 25: assisting with securing a vessel for passage (Knowledge 1 credit, competence 0 credit) total = 1 credit. Requiring 6 off job GLH and 1 on job GLH.

Unit 23: basic vessel watchkeeping (Knowledge 2 credits, competence 0 credit) total = 2 credits. Requiring 16 off job GLH and 2 on job GLH.

The qualifications for this pathway therefore comprise a minimum of 25 knowledge based credits and 20 competence based credits. This gives a total of 45 credits. In addition there are 10 credits for functional or key skills, making a grand total of 55 credits. To achieve the qualification will require a minimum of 279 GLH made up of 165 off job GLH and 114 on job GLH

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

ICT is not included in this pathway because the industry view is that it does not contribute to effective work performance or is relevant to the job role

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- direct from school or college
- level 1 Maritime Skills Ward/Certificate
- level 2 Maritime Studies Introductory Award (which also will give credit towards the

Maritime Studies Certificate)

- the Diploma in Travel and Tourism with 'Passenger Shipping' as ASL
- previous time spent in the Sea Cadets or Sea Scouts

Progression routes from this apprenticeship:

- MCA Certification as an Able seafarer (engine room) after completion of the required seetime
- An advanced level maritime apprenticeship with a choice of pathways

Into jobs:

- Watch rating (engine room)
- Able seafarer (engine room)
- Tug Rating (engine room)
- Senior engine room rating on superyachts and other vessels requiring limited certification

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. All of the ERR related learning is accredited through the following units contained within the Level 2 Diploma in Maritime Studies: able seafarer (engine room). Ref: 600/2790/3

- 'maritime employment, environmental and health and safety practice'. Ref: Y/501/2738
- 'maritime sector overview'. Ref: D/501/2739

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 2, Pathway 5: Port Operations

Description of this pathway

Port operations covering sea, river and inland waterway ports, harbours, quays, terminals, wharves, jetties, related facilities and associated handling and logistics operations

The total number of credits that an apprentice must attain on the Qualifications and Credit Framework (QCF) is 58. This comprises 23 credits for a Level Two NVQ Certificate in Port Operations (competence qualification), a minimum of 20 credits for a Level Two Certificate in Stevedoring Essentials (knowledge qualification), 10 credits for the two functional skills of English and Mathematics and a further 5 credits for the Level Two Award in Maritime Studies which covers Employment Rights and Responsibilities. This will take an apprentice a minimum period of 15 months.

Entry requirements for this pathway in addition to the framework entry requirements

General entry requirements apply

Job title(s)	Job role(s)
Trainee in Port Operations	Loading and unloading of cargo by various means including lifting equipment and vehicles; working safely with hazardous cargo and in potentially hazardous environments; responding to emergency situations; storing, receipt and dispatch; berthing and establishing vessel access

Qualifications

Competence qualifications available to this pathway

C1 - Level Two NVQ Certificate in Port Operations					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	600/5266/1	EAL	23	130	N/A

Knowledge qualifications available to this pathway

K1 - Level Two Certificate in Stevedoring Essentials					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	600/1283/3	EAL	20 min	155 min.	N/A

Combined qualifications available to this pathway

N/A

Relationship between competence and knowledge qualifications

K1a provides the underpinning knowledge and understanding for C1a.

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	1	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	1	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

The previous version of the framework did include ICT, but feedback from training providers is that this is proving a barrier to take-up for many employers which have no business need for operatives to use ICT. We are therefore removing it as a mandatory requirement - but continue to recommend its inclusion.

Progression routes into and from this pathway

Progression routes into this apprenticeship:

Direct from school or college

Level 1 Maritime Skills Award/Certificate

Level 2 Maritime Studies Introductory Award

Previous time spent In the Sea Cadets or Sea Scouts

Progression routes from this apprenticeship:

- An Advanced Level Maritime Apprenticeship with a choice of pathways

Into jobs:

- Port operative

Continuing professional development:

- Can progress to port operations supervisor, port commercial or port management roles with sufficient skill and drive

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. All of the ERR related learning is accredited through the following units that comprise the Level 2 Maritime Studies Award (QCF Ref: 500/3142/9)

- 'maritime employment, environmental and health and safety practice' 2 credits (18 GLH) Ref: Y/501/2738
- 'maritime sector overview' 3 credits (30 GLH). Ref: D/501/2739

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 2, Pathway 6: Workboat operations

Description of this pathway

Workboat operations - for deckhands working on specialist workboats.

The total number of credits that an apprentice must attain for this pathway is 53. The credits are achieved through the completion of 20 knowledge and 18 competence credits, plus 15 transferable (functional) skills credits.

Entry requirements for this pathway in addition to the framework entry requirements

There are no additional requirements other than the general entry conditions.

Job title(s)	Job role(s)
Workboat deckhand	assisting with: steering and lookout, safe navigation, operating and maintaining deck and engine room machinery, mooring and anchoring, and specialist workboat operations

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level 2 Diploma in Maritime Studies: Workboats					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	601/2931/1	SQA	38	335	N/A

Relationship between competence and knowledge qualifications

The Certificate in Maritime Studies: Workboats at QCF level 2 consists of 12 mandatory Units with a mix of learning outcomes, some relating to underpinning knowledge, and others to competence.

The 12 Units are these:

MSA Unit 1: Maritime Employment, Environmental and Health and Safety Practice – Knowledge 2 credits, Competence 0 credits: total 2 credits

MSA Unit 2: Maritime sector overview – Knowledge 3 credits, Competence 0 credits: total 3 credits

MSA Unit 3: Vessel ropework, anchoring and mooring operations – Knowledge 2 credits, Competence 3 credits: total 5 credits

MSA Unit 4: Securing a Vessel for Passage – Knowledge 1 credit, Competence 2 credits: total 3 credits

MSA Unit 5: Vessel Construction and Stability – Knowledge 5 credits, Competence 0 credits: total 5 credits

MSA Unit 6: Contribute to Workboat Operations – Knowledge 3 credits, Competence 6 credits: total 9 credits

MSA Unit 13: Survival in the Water During Maritime Emergencies – Knowledge 0 credits, Competence 1 credit: total 1 credit

MSA Unit 14: Vessel Fire Prevention and Fire Fighting (STCW) – Knowledge 1 credit, Competence 1 credit: total 2 credits

MSA Unit 16: Emergency First Aid in Response to Maritime Accidents or Medical Emergencies – Knowledge 0 credits, Competence 1 credit: total 1 credit

MSA Unit 20: Communicate using equipment and visual means – Knowledge 1 credit, Competence 1 credit: total 2 credits

MSA Unit 23: Basic navigational watchkeeping – Knowledge 1 credit, Competence 1 credit:

total 2 credits

MSA Unit 29: Control operation of survival craft and rescue boats – Knowledge 1 credit,
Competence 2 credits: total 3 credits

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	1	5
GCSE qualification in ICT (with enhanced functional content)	E	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in ICT*	C	N/A
A' Level or AS Level qualification in ICT*	E	N/A
GCSE or O'Level qualification in ICT**	A	N/A
A' Level or AS Level qualification in ICT**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

ICT is included, because it is important for effective job performance.

Progression routes into and from this pathway

Progression INTO this pathway may be:

- direct from school or college
- following time spent with Sea Cadets or Sea Scouts

Progression FROM this pathway may be:

- (a) further qualifications after completion of more sea service:
 - Navigational Watch Rating
 - MCA certification as Able Seafarer STCW Reg II/5
 - MCA certification as Master less than 200GT Code Vessels
 - MCA certification as Workboat Engineer
- (b) into jobs
 - workboat deckhand
 - progress to Workboat Mate, Master or Engineer

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010* and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics should be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. Learning under the 'Employee Rights and Responsibilities' heading is accredited through two units contained in the Certificate in Maritime Studies: Workboats:

- maritime employment, environmental and health and safety practice (MSA Unit 1; QCF Ref: Y/501/2738)
- maritime sector overview (MSA Unit 2; QCF Ref: D/501/2739)

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 2, Pathway 7: Marinas and Boatyards

Description of this pathway

For operatives working in marinas and boatyards.

The total number of credits that an apprentice must attain for this pathway is 69. The credits are achieved through the completion of 21 knowledge and 38 competence credits, plus 10 transferable (functional) skills credits.

Entry requirements for this pathway in addition to the framework entry requirements

There are no additional requirements other than the general entry conditions

Job title(s)	Job role(s)
Marina operative	Assisting with the movement of boats in the marina, maintain health and safety in the marina, providing customer service, maintain security in the marina, providing a fuel and pump out facility, preparing boats for lifting and storage.
Boatyard operative	Assist with the movement of boats in the boatyard, prepare boats for moving, assist in lifting and moving of boats, maintain health and safety in the boatyard, clean hulls.
Inland Marina Operative	Assist with the movement of boats in the marina, prepare docks and slipways for receiving boats, and maintain pontoons and general maintenance. Operate fuel and pump out facilities. Maintain health and safety.

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Diploma in Maritime Studies: Marinas and Boatyards					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	601/3930/4	SQA	59	446	N/A

Relationship between competence and knowledge qualifications

The Diploma in Maritime Studies: Marinas and Boatyards is designed with a mix of learning outcomes, some relating to underpinning knowledge, and others to competence. It is also designed to ensure that candidates complete a common core of learning, with additional options to suit the different circumstances of those working in coastal or inland marinas, or in boatyards.

The Diploma comprises a minimum of **59 credits** (25 knowledge, 34 competence).

There is a **mandatory core** of 10 units (36 credits), as follows:

MSA Unit 116: Maintain health and safety in a marina and boat yard environment: 3 credits (2 knowledge, 1 competence)

EAL Unit: Work safely near water: 1 credit (1 competence)

EAL Unit: Work safely at heights: 3 credits (1 knowledge, 2 competence)

MSA Unit 129: Maintain security in marinas and boatyards: 3 credits (1 knowledge, 2 competence)

MSA Unit 130: Maintain environmental good practice in marinas and boatyards: 4 credits (3 knowledge, 1 competence)

City & Guilds Unit: Develop productive working relationships with colleagues: 9 credits (4 knowledge, 5 competence)

Skills CfA Unit: Resolve customer service problems: 5 credits (5 competence)

City & Guilds Unit: Administer First Aid: 1 credit (1 competence)

MSA Unit 132: Respond to a pollution incident in a marina: 2 credits (2 knowledge)

Skills CfA Unit: Deliver Customer Service: 5 credits (2 knowledge, 3 competence)

Candidates must also choose **at least 2 units from Group A** ('lifting or moving'), and **at least 3 units from Group B** ('related tasks'):

Group A:

MSA Unit 117: Move and store boats and yachts ashore: 20 credits (5 knowledge, 15 competence)

MSA Unit 118: Prepare boats and yachts for moving: 7 credits (4 knowledge, 3 competence)

MSA Unit 119: Moor and berth boats and yachts: 11 credits (4 knowledge, 7 competence)

MSA Unit 131: Move loads in marinas and boatyards using lift trucks: 8 credits (3 knowledge, 5 competence)

MSA Unit 120: Prepare docks and slipways for the receiving of boats and yachts: 15 credits (5 knowledge, 10 competence)

Group B:

MSA Unit 121: Maintain equipment for the lifting and support of yachts and boats: 13 credits (2 knowledge, 11 competence)

MSA Unit 122: Maintain marina pontoons: 6 credits (1 knowledge, 5 competence)

MSA Unit 123: Clean boat and yacht hulls: 3 credits (1 knowledge, 2 competence)

MSA Unit 124: Prepare yachts for rigging and de-rigging: 15 credits (6 knowledge, 9 competence)

MSA Unit 125: Inspect and maintain yacht rigging: 19 credits (9 knowledge, 10 competence)

MSA Unit 126: Maintain records regarding vessels in marinas and boatyards: 2 credits (1 knowledge, 1 competence)

MSA Unit 127: Provide a fuel service for yachts and boats: 4 credits (2 knowledge, 2 competence)

MSA Unit 128: Operate pump out facilities in a marina: 3 credits (1 knowledge, 2 competence)

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	1	5
GCSE qualification in English (with enhanced functional content)	E	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	1	5
GCSE qualification (with enhanced functional content) in Mathematics	E	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	1	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

After consultation with employers the decision was made not to include ICT as a mandatory transferable skill.

Progression routes into and from this pathway

Progression INTO this pathway:

- Direct from school or college
- Following completion of the Marina Operatives Course

Progression FROM this pathway:

- Further qualifications after reaching supervisory level endorsed by the British Marine Federation
 - Intermediate Marina Managers Course
 - Advanced Marina Managers School
 - Certified Marina Operative
 - Certified Marina Manager
 - Certified Marina Professional

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work* and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics should be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. The topics are delivered through the industry recognised and endorsed British Marine Federation – Marina Operative Course.

The Marina Operative Course should be completed by the apprentice, signed off by the apprentice's line manager, and forwarded to the British Marine Federation for certification. Evidence that the apprentice has completed the course should be retained in the apprentice's portfolio.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<https://acecerts.co.uk>

Level 3

Title for this framework at level 3

Maritime Occupations (England)

Pathways for this framework at level 3

- | | |
|------------|---|
| Pathway 1: | Merchant Navy(deck) |
| Pathway 2: | Merchant Navy (engineering) |
| Pathway 3: | Officer of the watch on Merchant Vessels of less than 500 gross tonnage (near coastal) including tugs |
| Pathway 4: | Officer of the watch on merchant vessels of less than 3,000 gross tonnage (near coastal) including tugs |

Level 3, Pathway 1: Merchant Navy(deck)

Description of this pathway

Merchant Navy (deck). The total number of credits that an apprentice must obtain on the QCF for this pathway is either 71 to achieve the Level 3 Diploma in Shipping and Maritime Operations (deck pathway) comprising 32 knowledge and 24 competence credits, a total of 56, ref: 600/0255/4 plus 15 credits for transferable (functional) skills **OR** a total of 91 credits to achieve the Level 3 Diploma in Nautical Science ref: 600/3148/7, comprising 43 knowledge and 29 competence credits making a total of 72, plus 15 credits for transferable (functional) skills and 4 credits for the Level 2 Award in Employee Rights and Responsibilities ref: 600/4999/6.

Entry requirements for this pathway in addition to the framework entry requirements

General entry requirements apply, plus GCSE grades A-C/Scottish Standard Grades at Levels 1-3 in English, Maths, a Science based subject and at least one other. It will also be necessary to complete the four Maritime and Coastguard Agency 's mandatory safety courses, which are covered by the Level 2 Maritime Studies Award:safety (STCW). Ref:600/1857/4 before entering the apprenticeship

Job title(s)	Job role(s)
Merchant Navy Officer Trainee (deck)	assisting on the bridge with navigation and look out duties, berthing and mooring operations, crew and vessel safety

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level 3 Diploma in Shipping and Maritime Operations:deck pathway					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/0255/4	SQA	56	498	

B2 - Level 3 Diploma in Nautical Science					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B2a	600/3148/7	NcFE	72	306	

Relationship between competence and knowledge qualifications

The Level 3 Diploma in Shipping and Maritime Operations (deck pathway) Ref:600/0255/4 contains units comprising a mixture of learning outcomes, of which 32 are knowledge based credits and 24 are competence based credits making a total of 56 credits.. . An analysis showing the breakdown of the credit content of each unit and the GLH that comprise this qualification is as follows:

Mandatory units for the deck pathway:

Unit 1: Maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits (GLH 20)

Unit 2: Maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits. GLH 30)

Unit 5: Vessel construction and stability: (Knowledge 5 credits, competence 0 credit) .total = 5 credits. (GLH 50)

Unit 30: Control Vessel Operations (knowledge 3 credits, competence 5 credits) total = 8 credits. GLH 70)

Unit 34: Mathematics for Seafarers (knowledge 0 credits, competence 5 credits total = 5 credits.(GLH 40)

Unit 36: Numeracy for seafarers (Knowledge 0 credits, competence 6 credits) total = 6 credits. (GLH 60)

Unit 3: Vessel ropework anchoring and mooring operations: (Knowledge 2 credits, competence 3 credits) total = 5 credits. (GLH 50)

Unit 4: Securing a vessel for passage: (Knowledge 1 credit, competence 2 credits) Total = 3 credits. (GLH 28)

Unit 10: Assist with a vessel's navigational watch: (Knowledge 2 credits, competence 1 credit). total = 3 credits. (GLH 28)

Unit 29: Control operation of survival craft and rescue boats (Knowledge 1 credit, competence. 2 credits) total = 3 credits. (GLH 30)

Unit 35: Nautical Science an Introduction (Knowledge 8 credits, competence 0 credits, total = 8 credits (GLH 70)

Unit 37: Ship Construction (Knowledge 5 credits, competence 0 credits) total = 5 credits (GLH 45)

The complete deck pathway for this qualification totals 56 credits requiring 521 GLH

The Level 3 Diploma in Nautical Science (ref: 600/3148/7) contains units containing a mixture of learning outcomes, of which 43 are knowledge based credits and 29 are competence based credits making a total of 72 credits. An analysis showing the breakdown of the credit content of each unit and the GLH that comprise this qualification is as follows:

Mandatory units:

Unit 1: Mathematics for Nautical Science: (Knowledge 0 credits, competence 20 credits) total = 20 credits (GLH 94)

Unit 2 Introduction to Navigation: Knowledge 9 credits, competence 5 credits) total = 14 credits (GLH60)

Unit 3: Introduction to gneral Shipboard Knowledge (Knowledge 15 credits, competence 0 credits) total = 15 credits (GLH 62)

Unit 4 Academic Study Skills (Knowledge 7 credits, competence 4 credits) total = 11 credits (GLH 40)

Unit 5: Introduction to Ship and Port Operations (Knowledge 12 credits, competence 0 credits) total = 12 credits (GLH 50)

The complete qualification totals 72 credits requiring 306 GLH

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	2	5
GCSE qualification in English (with enhanced functional content)	C	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	2	5
GCSE qualification (with enhanced functional content) in Mathematics	C	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	2	5
GCSE qualification in ICT (with enhanced functional content)	C	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in ICT*	C	N/A
A' Level or AS Level qualification in ICT*	E	N/A
GCSE or O'Level qualification in ICT**	A	N/A
A' Level or AS Level qualification in ICT**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

(no information)

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- Direct from school or college with the necessary academic entry requirements
- From a Maritime Occupations Intermediate apprenticeship

Progression routes from this apprenticeship:

- A Higher Maritime Apprenticeship is under development
- An HNC/D in Shipping and Maritime Operations, an approved route for becoming a Merchant Navy junior Deck Officer (This is the most advantageous progression opportunity for those who have completed this advanced maritime apprenticeship pathway)
- A Foundation Degree in Nautical Studies, also an approved route for becoming a Merchant Navy junior Deck Officer

Into jobs:

- Able seafarer (deck)
- Tug Rating
- Crew member on Rivers and Inland Waterways vessels

UCAS points for this pathway:

(no information)

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase

. For those undertaking the Level 3 Diploma in Shipping and Maritime Operations. Ref: 600/0255/4 The ERR related learning is accredited through the following units , which are contained within it.

- 'maritime employment, environmental and health and safety practice' Ref: Y/501/2738
- 'maritime sector overview' Ref: D/501/2739

For those undertaking the Level 3 Diploma in Nautical Science. Ref: 500/3148/7, the ERR learning is accredited through a Level 2 Award in Employee Rights and Responsibilities. Ref:600/4999/6.

These units **OR** the Level 2 Award (600/4999/6) must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 3, Pathway 2: Merchant Navy (engineering)

Description of this pathway

Merchant Navy (engineering). The total number of credits that an apprentice must obtain on the QCF for this pathway is either 72, made up of 20 knowledge and 37 competence credits, making a total of 57 credits to achieve the Level 3 Diploma in Shipping and Maritime Operations (engineering pathway) (ref:600/0255/4) plus 15 credits for functional skills. **OR** 130 made up of 40 knowledge and 71 competence credits making a total of 111 credits to achieve the Level 3 Diploma in Marine Engineering (ref: 600/3147/5) plus 15 credits for transferable (functional) skills and 4 credits to achieve a Level 2 Award in Employment Rights and Responsibilities. ref:600/4999/6.

Entry requirements for this pathway in addition to the framework entry requirements

General entry requirements apply, plus GCSE grades A-C/Scottish Standard Grades at Levels 1-3 in English, Maths, a Science based subject and at least one other. In addition it will be necessary to complete the four Maritime and Coastguard Agency mandatory safety courses, which also comprise the Level 2 Award in Maritime Studies:safety (STCW). Ref: 600/1857/4 before entering the apprenticeship

Job title(s)	Job role(s)
Merchant Navy Officer Trainee (engineering)	Assisting in the engine room with routine maintenance, repair and oversight of a vessel's engines and ancilliary mechanical and electrical systems

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level 3 Diploma in Shipping and Maritime Operations (engineering pathway)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/0255/4	SQA	57	498	

B2 - Level 3 Diploma in Marine Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B2a	600/3147/5	NcFE	111	472	

Relationship between competence and knowledge qualifications

The Level 3 Diploma in Shipping and Maritime Operations (Ref: 600/0255/4) contains units comprising a mixture of learning outcomes, made up of 20 knowledge and 37 competence based credits. An analysis showing the breakdown of the credit content of each unit that comprise this qualification is as follows:

Mandatory units for engineering pathway:

Unit 1: Maritime employment environmental health and safety practice: (Knowledge 2 credits, competence 0 credit) total = 2 credits (GLH 20)

Unit 2: Maritime sector overview: (Knowledge 3 credits, competence 0 credit) total = 3 credits. (GLH 30)

Unit 5: Vessel construction and stability: (Knowledge 5 credits, competence 0 credit) total = 5 credits. (GLH 50)

Unit 30: Control Vessel Operations (knowledge 3 credits, competence 5 credits) total = 8 credits (GLH 70)

Unit 34: Mathematics for Seafarers (knowledge 0 credits, competence 5 credits total = 5 credits. (GLH 40)

Unit 36: Numeracy for seafarers (Knowledge 0 credits, competence 6 credits) total = 6 credits. (GLH 60)

Unit 7: Basic Vessel Engineering Systems (Knowledge 3 credits, competence 0 credit) total = 3 credits. (GLH 28)

Unit 31: Electrical principles for marine engineers (knowledge 3 credits, competence 3 credits) total = 6 credits (GLH 40)

Unit 32: Marine Engineering Dynamics (Knowledge 0 credit, competence 5 credits) total = 5 credits. (GLH 40)

Unit 33: Marine Heat Engines (knowledge 1 credit, competence 3 credits) total = 4 credits.(GLH 40)

Unit 38: Statics for Marine Engineers (knowledge 0 credit, competence 6 credits) total = 6 credits.(GLH 40)

Unit 39: Strength of Materials for Marine Engineers (knowledge 0 credits, competence 4 credits) total = 4 credits. (GLH 40)

This gives a total of 57 credits requiring a minimum of 498 GLH

The Level 3 Diploma in Marine Engineering (Ref: 600/3147/5) contains units comprising a mixture of learning outcomes, made up of 40 knowledge and 71 competence credits. An analysis showing the breakdown of the credit content of each unit that comprises this qualification is as follows:

Unit 1: Mathematics for Marine Engineering (Knowledge 0 credits, competence 25 credits) total = 25 credits, (GLH 144)

Unit 2: Introduction to Electrical Principles for Marine Engineers (Knowledge 10 credits, competence 2 credits) total = 12 credits (GLH 46)

Unit 3: Introduction to Ship Construction and Stability (Knowledge 2 credits, competence 6 credits) total = 8 credits (GLH 25)

Unit 4: Introduction to Marine Engineering Systems (Knowledge 17 credits, competence 0 credits) total = 17 credits (GLH 73)

Unit 5: Introduction to Marine Legislation (Knowledge 7 credits, competence 0 credits) total = 7 credits (GLH 24)

Unit 6: Introduction to Applied Mechanics for Marine Engineering (Knowledge 2 credits, competence 13 credits) total = 15 credits (GLH 58)

Unit 7: Introduction to Applied Heat for Marine Engineering (Knowledge 2 credits, competence

12 credits) total = 14 credits) GLH 57)

Unit 7 Fundamental IT and Communication Skills for Engineers (Knowledge 0 credits,
competence 13 credits) total = 13 credits (GLH 45)

This gives a total of 111 credits requiring a minimum of 472 GLH

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	2	5
GCSE qualification in English (with enhanced functional content)	C	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	2	5
GCSE qualification (with enhanced functional content) in Mathematics	C	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	2	5
GCSE qualification in ICT (with enhanced functional content)	C	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in ICT*	C	N/A
A' Level or AS Level qualification in ICT*	E	N/A
GCSE or O'Level qualification in ICT**	A	N/A
A' Level or AS Level qualification in ICT**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

(no information)

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- Direct from school or college
- From a Maritime Occupations Intermediate apprenticeship

Progression routes from this apprenticeship:

- A Higher Maritime Apprenticeship is under development
- An HNC/D in Shipping and Maritime Operations, an approved route for becoming a Merchant Navy junior Engineering Officer (this is the most advantageous progression opportunity for those completing this pathway)
- A Foundation Degree in Nautical Studies, also an approved route for becoming a Merchant Navy junior Engineering Officer

Into jobs:

- Able seafarer (engine)
- Tug Rating
- Crew member on Rivers and Inland Waterways vessels

UCAS points for this pathway:

(no information)

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase. The ERR related learning is accredited through the following units contained within the Level 3 Diploma in Shipping and Maritime Operations(Ref: 600/0255/4)

- Unit 1 -maritime employment, environmental and health and safety practice (Ref: Y/501/2738
- Unit 2 -maritime sector overview (ref: D/501/12738)

For those undertaking the Level 3 Diploma in Marine Engineering. Ref: 600/3147/5, the ERR learning is accredited through a Level 2 Award in Employee Rights and Responsibilities. Ref:600/4999/6.

These units **OR** the Level 2 Award (Ref: 600/4999/6) must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 3, Pathway 3: Officer of the watch on Merchant Vessels of less than 500 gross tonnage (near coastal) including tugs

Description of this pathway

Officer of the watch on merchant vessels of less than 500 gross tonnage (Near Coastal) including tugs, the minimum total number of credits that an apprentice must obtain on the QCF for this pathway is 59 calculated as follows: To achieve the Level 3 Diploma in Maritime Studies: officer of the watch on merchant vessels less than 500 gross tonnage (near coastal) - (QCF ref:600/8403/0) comprising 25 knowledge and 14 competence credits, a total of 39, plus 5 knowledge credits to achieve a Level 2 Award in Maritime Studies (QCF reference 500/3142/9) covering employment rights and responsibilities, and 15 credits for transferable (functional) skills.

Entry requirements for this pathway in addition to the framework entry requirements

All general entry requirements apply, plus:

- a willingness to spend periods away from home on board a vessel as required.
- GCSE grades A-C, or Scottish Standard Grades at Levels 1-3, in English, Maths, a Science based subject, and at least one other.

Job title(s)	Job role(s)
able seafarer/tug rating	assisting with bridge watchkeeping duties, steering and maintaining a course, mooring anchoring and securing operations, following safe and environmentally friendly working practices

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level 3 Diploma In Maritime Studies: Officer of the Watch on Merchant Vessels of less than 500 gross tonnage (Near Coastal)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/8403/0	SQA	39	335	

Relationship between competence and knowledge qualifications

The Level 3 Diploma In Maritime Studies: Officer of the Watch on Merchant Vessels of less than 500 gross tonnage (Near Coastal) contains units comprising a mixture of learning outcomes, of which 25 are knowledge based credits and 14 are competence based credits making a minimum total of 39 credits or 44 credits of which 27 are knowledge based credits and 17 are competence based credits if the optional unit is taken. This qualification requires a minimum of 335 GLH and a maximum of 365 GLH. including the optional unit. . An analysis showing the breakdown of the credit content of each unit and the GLH that comprise this qualification is as follows:

Unit 11 Vessel Navigation and Tides - Knowledge 4 credits, competence 2 credits = 6 credits (GLH 55)

Unit 37: Ship Construction - Knowledge 5 credits, competence 0 credits = 5 credits (GLH 45)

Unit 41 Chartwork and Tides - Knowledge 4 credits, competence 4 credits = 8 credits (GLH 70)

Unit 43 Contribute to Vessel Stability and Watertight Integrity - Knowledge 4 credits, competence 4 credits = 8 credits (GLH 70)

Unit 46 Control Vessel Mooring, Anchoring and Securing Operations- Knowledge 2 credits, competence 2 credits = 4 credits (GLH 20)

Unit 48 Interpret Meteorology in the Near Coastal Area - Knowledge 5 credits, competence 0 credits = 5 credits (GLH 45)

Unit 62 Respond to Navigational Emergencies - Knowledge 1 credit, competence 2 credits = 3 credits (GLH 30)

Optional Unit:

Unit 45 Control Tug Operations - Knowledge 2 credits, competence 3 credits = 5 credits (GLH 30)

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	2	5
GCSE qualification in English (with enhanced functional content)	C	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	2	5
GCSE qualification (with enhanced functional content) in Mathematics	C	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	2	5
GCSE qualification in ICT (with enhanced functional content)	C	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in ICT*	C	N/A
A' Level or AS Level qualification in ICT*	E	N/A
GCSE or O'Level qualification in ICT**	A	N/A
A' Level or AS Level qualification in ICT**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

(no information)

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- none specified

Progression routes from this apprenticeship:

- Mate on board vessels less than 500 gross tonnage (near coastal) including tugs
- Master of a vessel less than 500 gross tonnage (near coastal) including tugs
- Foundation degree in nautical studies

UCAS points for this pathway:

(no information)

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase

The ERR related learning is accredited through achievement of the Level 2 Award in Maritime Studies: introductory (ref: 500/3142/9),

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentice's portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

Level 3, Pathway 4: Officer of the watch on merchant vessels of less than 3,000 gross tonnage (near coastal) including tugs

Description of this pathway

Officer of the watch on merchant vessels of less than 3,000 gross tonnage (Near Coastal) including tugs, the minimum total number of credits that an apprentice must obtain on the QCF for this pathway is 136, calculated as follows: To achieve the Level 3 Diploma in Maritime Studies: officer of the watch on merchant vessels less than 3,000 gross tonnage (near coastal) - (QCF ref:600/8404/2) comprising 65 knowledge and 51 competence credits, a total of 116, plus 5 knowledge credits to achieve a Level 2 Award in Maritime Studies (QCF reference 500/3142/9) to cover employment rights and responsibilities, and 15 credits for transferable (functional) skills.

Entry requirements for this pathway in addition to the framework entry requirements

All general entry requirements apply, plus:

- a willingness to spend periods away from home on board a vessel as required.
- GCSE grades A-C, or Scottish Standard Grades at Levels 1-3, in English, Maths, a Science based subject, and at least one other.

Job title(s)	Job role(s)
able seafarer/tug rating	
	Assist on the bridge with navigation, watchkeeping, steering to a course, anchoring, mooring and securing operations, working safely and environmentally responsibly and responding to emergencies

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 - Level 3 Diploma in Maritime Studies: officer of the watch on merchant vessels less than 3,000 gross tonnage (near coastal)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/8404/2	SQA	116	994	

Relationship between competence and knowledge qualifications

The Level 3 Diploma In Maritime Studies: Officer of the Watch on Merchant Vessels of less than 3,000 gross tonnage (Near Coastal) contains units comprising a mixture of learning outcomes, of which 65 are knowledge based credits and 51 are competence based credits making a minimum total of 116 credits or 121 credits of which 67 are knowledge based credits and 54 are competence based credits if the optional unit is taken. This qualification requires a minimum of 994 GLH and a maximum of 1024 GLH, including the optional unit. An analysis showing the breakdown of the credit content of each unit and the GLH that comprise this qualification is as follows:

Unit 11 Vessel Navigation and Tides - Knowledge 4 credits, competence 2 credits = 6 credits (GLH 55)

Unit 12 Vessel watchkeeping - Knowledge 2 credits, competence 1 credit = 3 credits (GLH 28)

Unit 30 Control vessel operations - Knowledge 2 credits, competence 6 credits = 8 credits (GLH 70)

Unit 34 Mathematics for seafarers - Knowledge 0 credits, competence 5 credits = 5 credits (GLH 40)

Unit 35 Nautical Science - an introduction - Knowledge 8 credits, competence 0 credits = 8 credits (GLH 70)

Unit 37 Ship Construction - Knowledge 5 credits, competence 0 credits = 5 credits (GLH 45)

Unit 41 Chartwork and Tides - Knowledge 4 credits, competence 4 credits = 8 credits (GLH 70)

Unit 43 Contribute to Vessel Stability and Watertight Integrity - Knowledge 4 credits, competence 4 credits = 8 credits (GLH 70)

Unit 45 Control vessel communications - Knowledge 1 credit, competence 2 credits = 3 credits (GLH 30)

Unit 46 Control Vessel Mooring, Anchoring and Securing Operations- Knowledge 2 credits, competence 2 credits = 4 credits (GLH 24)

Unit 48 Interpret Meteorology in the Near Coastal Area - Knowledge 5 credits, competence 0 credits = 5 credits (GLH 45)

Unit 50 Maintain safe and environmentally friendly responsible working practices on board a vessel - Knowledge 4 credits, competence 2 credits = 6 credits (GLH 40)

Unit 58 Navigational mathematics and science - Knowledge 4 credits, competence 2 credits = 6 credits (GLH 60)

Unit 59 Provide a fire fighting response on board a vessel - Knowledge 1 credit, competence 2 credits = 3 credits (GLH 30)

Unit 60 Provide medical first aid on board a vessel - Knowledge 2 credits, competence 1 credit = 3 credits (GLH 30)

Unit 61 Respond to emergencies on board a vessel - Knowledge 3 credits, competence 2 credits = 5 credits (GLH 30)

Unit 62 Respond to Navigational Emergencies - Knowledge 2 credit, competence 1 credits = 3 credits (GLH 30)

Unit 63 Take charge of a navigational watch in a near coastal area - Knowledge 2 credits, competence 6 credits = 8 credits (GLH 70)

Unit 88 Control marine radar and automatic identification system - Knowledge 2 credits, competence 3 credits = 5 credits (GLH 42)

Unit 89 Control marine electronic navigation systems - Knowledge 5 credits, competence 3 credits = 8 credits (GLH 70)

Unit 90 Control electronic chart display information systems (ECDIS) - Knowledge 2 credits, competence 1 credit = 3 credits (GLH 25)

Unit 91 Control bridge resources - Knowledge 1 credit, competence 2 credits = 3 credits (GLH 30)

Optional Unit:

Unit 44 Control Tug Operations - Knowledge 2 credits, competence 3 credits = 5 credits (GLH 30)

Transferable skills (England)

Functional Skills / GCSE (with enhanced functional content) and Key Skills (England)

Apprentices must complete or have completed one of the English transferable skills qualifications and one of the Mathematical transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

English	Minimum level or grade	Credit value
Functional Skills qualification in English	2	5
GCSE qualification in English (with enhanced functional content)	C	5
Key Skills qualification in Communication achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE Qualification in English*	C	N/A
A' Level or AS Level qualification in English Language*	E	N/A
A' Level or AS Level qualification in English Literature*	E	N/A
A' Level or AS Level qualification in English Language and Literature*	E	N/A
GCSE or O' Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Language**	A	N/A
A' Level or AS Level qualification in English Literature**	A	N/A
A' Level or AS Level qualification in English Language and Literature**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Mathematics	Minimum level or grade	Credit value
Functional Skills qualification in Mathematics	2	5
GCSE qualification (with enhanced functional content) in Mathematics	C	5
Key Skills qualification in Application of Number achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in Mathematics*	C	N/A
A' level or AS Level qualification in Mathematics*	E	N/A
A' Level or AS Level qualification in Pure Mathematics*	E	N/A
A'Level or AS Level qualification in Further Mathematics*	E	N/A
GCSE or O'Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Mathematics**	A	N/A
A' Level or AS Level qualification in Pure Mathematics**	A	N/A
A' Level or AS Level qualification in Further Mathematics**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

ICT

Apprentices must complete or have completed one of the ICT transferable skills qualifications listed below in order to successfully complete their Apprenticeship and this will carry the QCF five credit values. If they do not have one of these qualifications as part of their evidence an Apprenticeship certificate cannot be awarded.

ICT	Minimum level or grade	Credit value
Functional Skills qualification in Information and Communications Technology (ICT)	2	5
GCSE qualification in ICT (with enhanced functional content)	C	5
Key Skills qualification in ICT achieved either before September 2013 as part of the Apprenticeship, or...*	2	5
GCSE qualification in ICT*	C	N/A
A' Level or AS Level qualification in ICT*	E	N/A
GCSE or O'Level qualification in ICT**	A	N/A
A' Level or AS Level qualification in ICT**	A	N/A

* achieved before September 2012 and within the 5 years immediately prior to starting an Apprenticeship.

** achieved before September 2012, otherwise at any time prior to starting the Apprenticeship.

Inclusion of Information and Communications Technology (ICT)

(no information)

Progression routes into and from this pathway

Progression routes into this apprenticeship:

- none specified

Progression routes from this apprenticeship:

- Mate on board vessels less than 3,000 gross tonnage (near coastal) including tugs
- Master of a vessel less than 3,000 gross tonnage (near coastal) including tugs
- Foundation degree in nautical studies

UCAS points for this pathway:

(no information)

Employee rights and responsibilities

This framework requires delivery of employee rights and responsibilities (ERR) to ensure the apprentice:

- knows and understands the range of employer and employee statutory rights and responsibilities under Employment Law. This should cover the apprentice's rights and responsibilities under the Employment Rights Act 1996, Equality Act 2010 and Health and Safety legislation, together with the responsibilities and duties of employers
- knows and understands the procedures and documentation in their organisation which recognise and protect their relationship with their employer. Health & Safety and Equality & Diversity* training must be an integral part of the apprentice's learning programme
- knows and understands the range of sources of information and advice available to them on their employment rights and responsibilities. Details of Access to Work and Additional Learning Support must be included in the programme;
- understands the role played by their occupation within their organisation and industry
- has an informed view of the types of career pathways that are open to them
- knows the types of representative bodies and understands their relevance to their skill, trade or occupation and their main roles and responsibilities
- knows where and how to go to get information and advice on their industry, occupation, training and career
- can describe and work within their organisation's principles of conduct and codes of practice
- recognises and can form a view on issues of public concern that affect their organisation and industry

Topics must be delivered as an integral part of the programme, with the majority of this delivery taking place in the induction phase

The ERR related learning is accredited through achievement of the Level 2 Award in Maritime Studies: introductory (ref: 500/3142/9).

These units must be completed and the assessment requirements of the awarding organisation met. In addition, evidence confirming all nine topics listed above have been covered must be retained in the Apprentices portfolio. The evidence must be signed by the apprentice and the provider and is subject to audit.

CERTIFICATION

The ACE Apprenticeship Declaration and Authorisation form V3 must be uploaded as part of the certification process. This can be downloaded directly from the ACE website:

<http://acecerts.co.uk>

The remaining sections apply to all levels and pathways within this framework.

How equality and diversity will be met

The Maritime Labour Convention 2006 (to which the UK is a signatory) requires all seafarers to be sufficiently physically fit to pass a medical specified by the MCA; this could include a colour blindness test. Current UK port legislation (Docks Regulations 1988, regulation 11(2)) requires that 'A person shall not be authorised to drive a vehicle or operate a lifting appliance unless he is fit to do so'. Health and Safety Executive guidance specifies restrictions based on some medical conditions (e.g. Type 2 Diabetes). There are therefore some disabilities that will prevent a person from becoming a seafarer or working in port operations. Given the potentially hazardous and unpredictable nature of seagoing and port related employment, employment it is clear why these conditions are in place. There are however no other barriers to entry. The Maritime Skills Needs Analysis (2009) showed the maritime sector workforce has a much lower proportion of female workers than the whole of the UK workforce: 20% compared to 45%. There are also fewer BME workers in the maritime sector than the UK average: 3% compared to 9%. The whole sector is firmly committed to improving these ratios as are the Seafarers and Ports Trade Unions and all stakeholders are working together to look at ways of doing this through the apprenticeship, web sites, blogs and careers information. This framework supports these efforts by highlighting the attractions of working on board vessels and in ports, the minimal entry requirements and the range of occupations available. Publicity material emphasises under represented groups who have made a successful career in the sector.

Training providers and employers MUST comply with the Equality Act 2010 to ensure that applicants are not discriminated against in terms of entry to, and promotion within, the industry, using the 8 protected characteristics of

1. Age
2. Disability
3. Gender
4. Gender re-assignment
5. Marriage and civil partnership
6. Pregnancy and maternity
7. Race
8. Religion and belief
9. Sexual orientation

The Maritime Skills Alliance will monitor take up and achievement of all Apprenticeships as part of its Apprenticeship Strategy and take steps to address any barriers to take up and achievement as part of its Sector Qualifications Strategy.

On and off the job guided learning (England)

Total GLH for each pathway

Pathway 1: Rivers and Inland Waterways including limited distances to sea (Boatmaster Licence tier 1 level 2). A minimum of 453 GLH to achieve the qualification, plus 150 GLH to cover the key or functional skills, and 40 GLH for induction. This makes a grand total of 643 GLH.

Pathway 2: Sea Fishing. A minimum of 390 GLH to complete the qualification, plus 100 GLH to cover the key or functional skills and 40 GLH for induction, making a grand total of 530 GLH.

Pathway 3: Able seafarer/tug rating (deck). A minimum of 294 GLH to achieve the qualification, plus 100 GLH to cover key or functional skills and 40 GLH for induction. This makes a grand total of 434 GLH.

Pathway 4: Able seafarer/tug rating (engine room). A minimum of 279 GLH to achieve the qualification, plus 100 GLH to cover key or functional skills and 40 GLH for induction. This makes a grand total of 419 GLH.

Pathway 5: Port Operations. A minimum of 130 GLH to achieve the competence qualification, 155 GLH to achieve the knowledge qualification, 48 GLH to achieve a Level 2 Award in Maritime Studies (QCF reference 500/3142/9) to cover employment rights and responsibilities, plus 100 GLH to cover functional skills and 40 GLH for induction. This makes a grand total of 473 GLH.

Pathway 6: Workboat Operations. A minimum of 370 GLH to achieve the qualification, plus 150 GLH to cover key or functional skills and 40 GLH for induction. This makes a grand total of 560 GLH.

Pathway 7: Marina and Boatyard Operatives. A minimum of 413 GLH to achieve the qualification, plus 100 GLH to cover key or functional skills and 40 GLH for induction. This makes a grand total of 553 GLH.

Level Three Advanced pathways:

Pathway 1: Merchant Navy (deck). A minimum total of 521 GLH to achieve the Level 3 Diploma in Maritime and Shipping Operations (deck pathway) (Ref: 600/0255/4) plus 150 GLH to cover key or functional skills and 40 GLH for induction, this makes a grand total of 711 GLH

OR a Minimum of 306 GLH to achieve the Level 3 Diploma in Nautical Science (Ref: 600/3148/7) plus 150 to cover key or functional skills, 32 GLH to achieve the Level 2 Award in Employee Rights and Responsibilities (Ref: 600/4999/6) and 40 GLH for induction. This makes a grand total of 528 GLH.

Pathway 2: Merchant Navy (engineering). A minimum total of 498 GLH to achieve the Level 3 Diploma in Shipping and Maritime Studies (engineering pathway) (Ref: 600/0255/4) plus 150 GLH to cover key or functional skills and 40 GLH for induction, this makes a grand total of 688 GLH **OR** a minimum total of 472 GLH to achieve the Level 3 Diploma in Marine Engineering (Ref: 600/3147/5) plus 150 GLH to cover key or functional skills, 32 GLH to achieve the Level 2 Award in Employee Rights and Responsibilities (Ref: 600/4999/6) and 40 GLH for induction. This makes a grand total of 694 GLH.

Pathway 3: Officer of the watch on merchant vessels less than 500 gross tonnage (near coastal) including tugs: A minimum of 335 GLH to achieve a Level 3 Diploma in Maritime Studies:Officer of the watch on merchant vessels up to 500 gross tonnage (Near coastal) (Ref: 600/8403/0) or 365 GLH if the optional unit is taken, plus 48 GLH to achieve a Level 2 Award in Maritime Studies (QCF reference 500/3142/9) to cover employment rights and responsibilities, 150 GLH to cover functional skills and 40 GLH for induction. This makes a grand total of 573 GLH plus 30 GLH if the optional unit is taken.

Pathway 4: Officer of the watch on merchant vessels less than 3,000 gross tonnage (near coastal) including tugs. A minimum of 994 GLH to achieve a Level 3 Diploma in Maritime Studies:Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal), (Ref: 600/8404/2) or 1024 GLH if the optional unit is taken, plus 48 GLH to achieve a Level 2 Award in Maritime Studies (QCF reference 500/3142/9) to cover employment rights and responsibilities, 150 GLH to cover functional skills and 40 GLH for induction. This makes a grand total of 1232 GLH plus 30 GLH if the optional unit is taken.

Duration of the Apprenticeship

For Apprentices from 16-18, the Apprenticeship must last at least 12 months and for Apprentices 19 and over, the Apprenticeship must be at least 12 months, unless relevant prior learning is recorded. Where this is the case, Apprenticeships will not be less than six months and must include new skills and new learning.

Guided Learning Hours:

- must be planned, reviewed and evaluated jointly between the apprentice and tutor, teacher, mentor or manager;
- must allow access as and when required by the apprentice either to a tutor, teacher, mentor or manager;
- are delivered through one or more of the following methods: individual and group teaching, e-learning, distance learning, coaching, mentoring; feedback and assessment; collaborative/networked learning with peers; guided study; provide examples from the

sector as to how this will be delivered in the "how this requirement will be met in the off the job and on the job sections;

- Apprenticeship delivery must be planned to make full and effective use of the duration, including the opportunity for apprentices to embed and extend their learning through repeated workplace practice; completed in relation to accredited components of the framework achieved prior to the

apprenticeship training may count towards the GLH requirement for the framework;

- where an apprentice completes an Apprenticeship part way through the final 12 month period (which is after the first 12 months), an apprentice must receive a proportion of the minimum of 280 GLH which is at least equal to the proportion of the final 12 month period spent on the Apprenticeship

Minimum off-the-job guided learning hours

Intermediate Pathway 1: Rivers and Inland Waterways including limited distances to sea

Minimum off the job GLH for this pathway:

An apprentice will need to complete a total of 456 off the job GLH (equating to 71% of the total GLH), over a minimum duration of 12 months for this programme.

The requirement for off the job guided learning is calculated as follows:

- 266 GLH Level 2 Diploma in Maritime Studies
- 50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skill in ICT (alternatively apprentices can complete Level 1 Key Skill in ICT providing they achieve before September 2013)
- 40 GLH for induction

Intermediate Pathway 2: Sea Fishing :

Minimum off the job GLH for this pathway:

An apprentice will need to complete a total of 344 GLH off the job (65% of the total GLH), over a minimum duration of 12 months for this programme.

The requirement for off the job guided learning is calculated as follows:

- 204 GLH Level 2 Certificate in Maritime Studies

- 50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)
- 40 GLH for induction

Intermediate Pathway 3: Able seafarer/Tug Rating (deck):

Minimum off the job GLH for this pathway:

An apprentice will need to complete a total of 316 GLH off the job (73% of the total GLH) over a minimum duration of 12 months for this programme.

The requirement for the off the job GLH is calculated as follows:

- 176 GLH Level 2 Certificate in Maritime Studies
- 50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)
- 40 GLH for induction

Intermediate Pathway 4: Able seafarer/Tug rating (engine room) :

Minimum off the job GLH for this pathway:

An apprentice will need to complete a total of 305 GLH off the job (73% of the total GLH) over a minimum duration of 12 months for this programme.

The requirement for the off the job GLH is calculated as follows:

- 165 GLH Level 2 Diploma in Maritime Studies
- 50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)
- 40 GLH for induction

Intermediate Pathway 5: Port Operations :

Minimum off-the-job GLH for the pathway:

An apprentice will need to complete a total of 343 off the job GLH (75% of total GLH) over a minimum duration of 15 months. This means that an apprentice will need to complete a minimum of 274 off the job GLH in the first 12 months and a further 69 off the job GLH in the following 3 months.

The requirement for the off the job GLH is calculated as follows:

- 155 GLH Level 2 Certificate in Stevedoring Essentials (knowledge qualification)
- 50 GLH Level 1 Functional Skills in Maths. (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 1 Functional Skills in English. (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)
- 48 GLH Level 2 Maritime Studies Award (employee rights and responsibilities qualification)
- 40 GLH Induction

Intermediate Pathway 6: Workboat Operations:

Minimum off-the-job GLH for the pathway:

An apprentice will need to complete a total of 383 off the job GLH (equating to 73% of the total GLH), over a minimum duration of 12 months for this programme.

The requirement for off the job guided learning is calculated as follows:

193 GLH Level 2 Diploma in Maritime Studies

50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)

50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)

50 GLH Level 1 Functional Skill in ICT (alternatively apprentices can complete Level 1 Key Skill in ICT providing they achieve before September 2013)

40 GLH for induction

Intermediate Pathway 7: Marina and Boatyard Operations:

Minimum off-the-job GLH for the pathway:

An apprentice will need to complete a total of 409 off the job GLH (equating to 74% of the total GLH), over a minimum duration of 12 months for this programme.

The requirement for off the job guided learning is calculated as follows:

269 GLH Level 2 Diploma in Maritime Studies

50 GLH Level 1 Functional Skill in Maths (alternatively apprentices can complete Level 1 Key Skill in Application of Number providing they achieve before September 2013)

50 GLH Level 1 Functional Skill in English (alternatively apprentices can complete Level 1 Key Skill in Communication providing they achieve before September 2013)

40 GLH for induction

Advanced Level 3 pathways:

Advanced Pathway 1: Merchant Navy (deck):

Minimum off the job GLH for this pathway:

An apprentice will need to complete a total of either 581 GLH off the Job (82% of the Total GLH) if following the Level 3 Diploma in Shipping and Maritime Operations (deck pathway) Ref: 600/0255/4. **OR** a total of 452 GLH off the job (86% of the total GLH) if following the Level 3 Diploma in Nautical Science Ref: 600/3148/7 over a minimum period of 12 months.

The requirement for off the job guided learning is calculated as follows:

- 391 GLH Level 3 Diploma in Shipping and Maritime Operations (deck pathway) (Ref: 600/0255/4) OR 230 GLH to achieve Level 3 Diploma in Nautical Science (ref: 600/3148/7) plus 32 GLH to achieve Level 2 Award in Employment Rights and Responsibilities (Ref: 600/4999/6)
- 50 GLH Level 2 Functional Skill in Maths (alternatively apprentices can complete Level 2 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in English (alternatively apprentices can complete Level 2 Key Skill in Communication providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in ICT (alternatively apprentices can complete Level 2 key skill in ICT providing they achieve before September 2013)
- 40 GLH for induction

Advanced Pathway 2: Merchant Navy (engineering) :

Minimum off the job GLH for this pathway:

An apprentice will need to complete either a total of 562 GLH off the job (82% of the total GLH) if following the Level 3 Diploma in Shipping and Maritime Operations (engineer pathway) Ref: 600/0255/4. **OR** a total of 576 GLH off the job (83% of the total GLH) if following the Level 3 Diploma in Marine engineering Ref: 600/3147/5 over a minimum period of 12 months.

The requirement for off the job guided learning is calculated as follows:

- 372 GLH Level 3 Diploma in Shipping and Maritime Operations(engineer pathway) (Ref:600/0255/4) OR 354 GLH to achieve Diploma in Marine Engineering (Ref: 600/3147/5) plus 32 GLH to achieve Level 2 Award in Employment Rights and Responsibilities (Ref: 600/4999/6)
- 50 GLH Level 2 Functional Skill in Maths (alternatively apprentices can complete Level 2 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in English (alternatively apprentices can complete Level 2 Key Skill in Communication providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in ICT (alternatively apprentices can complete Level 2 key

- skill in ICT providing they achieve before September 2013
- 40 GLH for induction.

Advanced Pathway 3: Officer of the watch on merchant vessels less than 500 gross tonnage (near coastal) including tugs:

Minimum off the job GLH for this pathway

An apprentice will need to complete a total of 488 GLH off the job (85% of the total GLH) over a minimum duration of 12 months.

The requirement for off the job guided learning is calculated as follows:

- 250 GLH Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than to 500 gross tonnage (near coastal)
- 48 GLH to achieve a level 2 Maritime Studies Award (Ref:500/3142/9), the employee rights and responsibilities qualification
- 50 GLH Level 2 Functional Skill in Maths (alternatively apprentices can complete Level 2 Key Skill in application of Number providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in English (alternatively apprentices can complete Level 2 Key Skill in Communication providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in ICT (alternatively apprentices can complete Level 2 key skill in ICT providing they achieve before September 2013)
- 40 GLH for induction

Advanced Pathway 4: Officer of the watch on merchant vessels less than 3,000 gross tonnage (near coastal) including tugs :

Minimum off the job GLH for this pathway

An apprentice will need to complete a total of 962 GLH off the job (78% of the total GLH) over a minimum duration of 18 months. This means the apprentice will need to complete a minimum of 632 GLH in the first 12 months and a further 330 GLH in the following 6 months.

The requirement for off the job guided learning is calculated as follows:

- 724 GLH Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (near coastal)
- 48 GLH to achieve a level 2 Maritime Studies Award (Ref:500/3142/9), the employee rights and responsibilities qualification
- 50 GLH Level 2 Functional Skill in Maths (alternatively apprentices can complete Level 2 Key Skill in Application of Number providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in English (alternatively apprentices can complete Level 2 Key Skill in Communication providing they achieve before September 2013)
- 50 GLH Level 2 Functional Skill in ICT (alternatively apprentices can complete Level 2 key skill in ICT providing they achieve before September 2013)

- 40 GLH for induction

How this requirement will be met

For all pathways it is important that the on and off job learning is integrated. This will be achieved by ensuring that the apprentice is able to put into practice learning acquired off the job in a work setting as soon as practicable thereafter. This will require a mixture of time spent on and off the job alternating throughout the period of the apprenticeship.

Each approved learning provider centre or outreach facility for all pathways will maintain a register of attendance showing the time spent off the job by each apprentice whilst receiving guided learning. Providers will be responsible for providing evidence showing that the minimum off the job GLH has been met when applying for Apprenticeship completion certificates. Guided Learning Hours (GLH) should:

- achieve clear and specific outcomes which contribute directly to the successful achievement of the framework and this may include accredited and non-accredited elements of the framework
- be planned, reviewed and evaluated jointly between the apprentice and a tutor, teacher, mentor or manager
- allow access as and when required by the apprentice, either to a tutor, teacher, mentor or manager
- be delivered during contracted working hours
- be delivered through one or more of the following methods: individual and group teaching, e-learning, distance learning, coaching, mentoring, feedback and assessment, collaborative/networked learning with peers and guided study
- for the seafaring intermediate pathways 1 to 4, and 6, and advanced pathways 1 to 4, be recorded in the Training Record Book that will be supplied free of charge to the learner on enrolment to the apprenticeship

Evidence of off the job GLH:

- Level 2 Award, Certificate or Diploma in Maritime Studies and/or Level 2 Certificate in Stevedoring Essentials, appropriate to the pathway followed or Level 3 Diploma in Shipping and Maritime Operations(deck or engineer pathway,) Level 3 Diploma in Nautical Science, Level 3 Diploma in Marine Engineering, Level 3 Diploma in Maritime Studies Officer of the watch less than 500 gross tonnage or less than 3,000 gross tonnage (near coastal), Level 2 Award in Employment Rights and Responsibilities dependant on pathway followed
- Level 1 or Level 2 (depending on pathway) Key Skills Certificates for Communication, Application of number (and ICT when required for the pathway) or Level 1 or Level 2 (depending on pathway) Functional Skills Certificates for Maths, English (and ICT when

required for the pathway) or the equivalents specified on pages 14/15, 24/25, 34/35, 44/45, 54/55.

Minimum on-the-job guided learning hours

Intermediate pathway 1: Rivers and Inland Waterways including limited distances to sea :

For this pathway, an apprentice will need to complete a minimum of 187 GLH on the job over a minimum duration of 12 months for this programme.

Intermediate pathway 2: Sea Fishing :

For this pathway, an apprentice will need to complete a minimum of 186 GLH on the job over a minimum duration of 12 months for this programme.

Intermediate pathway 3: Able seafarer/tug rating (deck) :

For this pathway, an apprentice will need to complete a minimum of 118 GLH on the job over a minimum duration of 12 months for this programme.

Intermediate pathway 4: Able seafarer (engine room):

For this pathway, an apprentice will need to complete a minimum of 114 GLH on the job over a minimum duration of 12 months for this programme.

Intermediate pathway 5: Port Operations:

For this pathway an apprentice will need to complete a minimum of 130 GLH on the job over a minimum duration of 15 months. This means that an apprentice will need to complete 95 on the job GLH during the first year and a further 35 on job GLH over the following 3 months.

Intermediate pathway 6: Workboat Operations:

For this pathway, an apprentice will need to complete a minimum of 177 GLH on the job over a minimum duration of 12 months for this programme.

Intermediate pathway 7: Marina and Boatyard Operatives:

For this pathway, an apprentice will need to complete a minimum of 144 GLH on the job over a minimum duration of 12 months for this programme.

Advanced pathway 1: Merchant Navy (deck):

For this pathway an apprentice will to complete a minimum of 130 GLH on the job to achieve the Level 3 Diploma in Shipping and Maritime Operations (deck pathway) **OR** 76 GLH on the job to complete the Level 3 Diploma in Nautical Science over a minimum period of 12 months

Advanced pathway 2: Merchant Navy (engineer) :

For this pathway an apprentice will need to complete a minimum of 126 GLH on the job to achieve the Level 3 Diploma in Shipping and Maritime Operations (engineering pathway) **OR** 118 GLH on the job to complete the Level 3 Diploma in Marine Engineering over a minimum period of 12 months

Advanced pathway 3: Officer of the watch on vessels of less than 500 gross tonnage (near coastal) including tugs:

For this pathway an apprentice will need to complete a minimum of 85 GLH on the job to achieve the Level 3 Diploma in Maritime Studies: Officer of the watch on vessels less than 500 gross tonnage (near coastal)

Advanced pathway 4: Officer of the watch on vessels of less than 3,000 gross tonnage (near coastal) including tugs:

For this pathway an apprentice will need to complete a minimum of 270 GLH on the job to achieve the Level 3 Diploma in Maritime Studies: Officer of the watch on vessels less than 3,000 gross tonnage (near coastal)

How this requirement will be met

On the job GLH should:

- achieve clear and specific outcomes which contribute directly to the successful achievement of the framework and this may include accredited and non-accredited elements of the framework
- be planned, reviewed and evaluated jointly between the apprentice and a tutor, teacher, assessor, mentor or manager
- allow access as and when required by the apprentice either to a tutor, teacher, assessor, mentor or manager
- be delivered during contracted working hours
- be delivered through one or more of the following methods: individual and group coaching, mentoring, feedback and assessment, collaborative/networked learning with peers and project work

Evidence for on the job GLH for Seafarer intermediate pathways 1 to 4 and 6, and Advanced Level pathways 1 to 4

Each apprentice will be issued with an MSA-approved Training Record Book specific to the pathway being followed. It lists all the activities that must be undertaken in the work place,

under supervision and guidance. When each task has been completed to a satisfactory standard it will be 'signed off' by the Master/Skipper or other designated person overseeing the apprentice. It will include dates and time spent on particular activities. The completed book will be used to provide supporting evidence of proficiency to undertake certain activities and the time spent on them. It will also include evidence of PLTS and details of mentoring sessions.

Training Record Books will be supplied free of charge to learners and are available for the various pathways from:

Rivers and inland waterways (including limited distances to sea) Intermediate pathway 1: apply to Company of Watermen and Lightermen, Watermens' Hall, St Mary-at-Hill, London EC3R 8EF

Sea Fishing intermediate pathway 2: apply to Sea Fish Industry Authority, Origin Way, Europarc, Grimsby, DN37 9TZ

Tug rating Intermediate pathways 3 and 4: apply to British Tugowners Association, 30 Park Street, London SE1 9EQ,

Able seafarer (deck) intermediate pathways 3 : apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ or to British Tugowners Association, 30 Park Street, London SE1 9EQ, as appropriate for the pathway being followed

Able seafarer (engine room) intermediate pathway 4: apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ or to British Tugowners Association, 30 Park Street, London SE1 9EQ, as appropriate for the pathway being followed.

Workboat Operations, intermediate pathway 6: apply to the National Workboat Association, c/o secretary@workboatassociation.org

Merchant Navy (deck) advanced pathway 1: apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ

Merchant Navy (engineering) advanced pathway 2: apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ

Officer of the watch on merchant vessel of less than 500 gross tonnage (Near Coastal) advance pathway 3: apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ or to British Tugowners Association, 30 Park Street, London SE1 9EQ, if tugs option being followed

Officer of the watch on merchant vessels of less than 3,000 gross tonnage (Near coastal) advanced pathway 4: apply to Merchant Navy Training Board, 30 Park Street, London SE1 9EQ or to British Tugowners Association, 30 Park Street, London SE1 9EQ, if tugs option being followed

Evidence for on the job GLH for Port Operations pathway 5:

Level 2 NVQ Certificate in Port Operations, which is a competence based qualification that requires assessments of practical demonstrations of competence on the job with supporting evidence to satisfy the requirements of the Awarding organisation

There is no requirement under SASE for achievement of GLH to be evidenced at point of claiming completion certificate. The Universal Declaration and Authorisation Form requires apprentices to tick to acknowledge that they have received the minimum levels of GLH as required by their framework but ACE does not require this to be evidenced.

Evidence for on the job GLH for Pathway 7, Marinas and Boatyards will be assessed through an approved workbook issued by the British Marine Federation: www.britishmarine.co.uk, contact: training@britishmarine.co.uk

Personal learning and thinking skills assessment and recognition (England)

Summary of Personal Learning and Thinking Skills

Personal learning and thinking skills (PLTS) have been mapped to the competence based qualifications for this framework. The mapping for all pathways is set out the following section.

The mapping indicates the most likely places where PLTS can be demonstrated. However these skills should be demonstrated throughout the whole Apprenticeship. Apprentices must be introduced to PLTS during induction so that they learn to recognise when they are achieving these skills for themselves. Apprentices, line managers and providers must be able to provide examples and evidence, including use of the apprentice's Training Record Book for the seafarer pathways, to show where each of these skills have been demonstrated.

In addition learning methods will be used that facilitate the identification and use of PLTS.

Approved providers will need to be able to show evidence of an apprentice's achievement of PLTS for example through a portfolio and for intermediate pathways 1 to 4, and advanced pathways 1 and 2 the Training Record Book referred to above and confirm the apprentice has satisfactorily demonstrated the use of the 6 PLTS and the component parts by issuing an appropriate certificate to this effect.. This will need to be produced when requesting an apprenticeship completion certificate.

Providers will be required use the latest guidance on recognising and assessing personal learning and thinking skills (PLTS).

Creative thinking

Creative thinking involves:

- generating ideas and exploring possibilities
- asking questions to extend thinking
- connecting own and others' ideas and experiences in inventive ways
- questioning own and others' assumptions
- trying out alternatives or new solutions and following ideas through
- adapting ideas as circumstances change

Mapping of Creative thinking to the combined competence and knowledge based qualifications for intermediate pathways 1 to 4, advanced pathways 1 to 4 and to the competence and knowledge based qualifications for intermediate pathway 5 of this framework has been undertaken. This shows that creative thinking skills are contained within the following units

that form part of Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7), Marine Engineering (ref: 600/3147/5), Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (Near coastal) (Ref: 600/8403/0) and Level 3 Diploma in Maritime Studies:Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal), (Ref: 600/8402/2)

- Maritime fire prevention and fire actions (D/602/3878)
- Vessel construction and stability (T/602/3904)
- Maintain your own work practice (M/602/4436)
- Vessel watchkeeping (T/602/4020)
- Vessel repair and maintenance (D/602/3895)
- Assemble, operate and maintain Fishing gear (A602/4021)
- Academic study skills (A/503/4960)
- Fundamental IT and communication skills for engineers (M/503/4969)
- Vessel Navigation and Tides (F602/4019)
- Control vessel mooring, anchoring and securing operations (Y602/5323)
- Control vessel communications (L/602/5352)
- Respond to navigational emergencies (M/602/5411)
- Take charge of a navigational watch in the near coastal area (R/602/5448)

and in **all** units that comprise the Level 2 NVQ in Port Operations and Level 2 Certificate in Stevedoring Essentials (pathway 5) **except** the following:

- Work safely in confined Spaces
- Undertake basic maintenance and serving of vehicles
- Understand the benefits of a healthy lifestyle at work
- IT user fundamentals

Independent enquiry

Independent enquiry involves:

- identifying questions to answer and problems to resolve
- planning and carrying out research, appreciating the consequences of decisions
- exploring issues, events or problems from different perspectives
- analysing and evaluating information, judging its relevance and value
- considering the influence of circumstances, beliefs and feelings on decisions and events
- supporting conclusions, using reasoned arguments and evidence

Mapping of Independent enquiry to the competence based qualifications that relate to

intermediate pathways 1 to 4, advanced pathways 1 and 2 and to the competence and knowledge based qualifications for pathway 5 of this framework this framework has been undertaken. This shows that independent enquiry skills are contained within the following units that form part of the Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7), Marine Engineering (ref: 600/3147/5) , Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (Near coastal) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal)

- Maritime sector overview (D/501/2739)
- Maritime employment, environmental and health and safety Practice (Y/501/2738)
- Maritime fire prevention and fire actions (D/602/3878)
- Emergency first aid in responses to maritime accidents or medical emergencies
- Vessel construction and stability (T/602/3904)
- Securing a vessel for a passage (H/602/3897)
- Vessel navigation and tides (F/602/4019)
- Vessel watchkeeping (T/602/3071)
- Basic vessel engineering systems (H/602/3882)
- Maintaining vessel machinery for safe operation (R/602/3893)
- Assemble and operate fishing gear (A/602/4021)
- Receiving, handling and stowing the catch (F/602/4022)
- Maritime security (K/602/3866)
- Academic study skills (A/503/4960)
- Fundamental IT and communication skills for engineers (M/503/4969)
- Vessel navigation and tides (F/602/4019)
- Control vessel mooring, anchoring and securing operations ((Y/602/5323)
- Interpret meteorology in the near coastal area (L/602/5416)
- Respond to navigational emergencies (M/602/5411)
- Take charge of a navigationa watch in a near coastal area (A/602/544)
- Provide fire fighting response on board a vessel (Y/602/5435)
- Control bridge resources (A/504/1133)

and **all** units that comprise the Level 2 NVQ Certificate in Port Operations and Level 2 Certificate in Stevedoring Essentials (pathway 5)

Reflective learning

Reflective learning involves:

- assessing yourself and others, identifying opportunities and achievements
- setting goals with success criteria for your personal development and work
- reviewing progress, acting on the outcomes
- inviting feedback and dealing positively with praise, setbacks and criticism

- evaluating experiences and learning to inform your future progress
- communicating your learning in relevant ways for different audiences

Mapping of Reflective Learning to the combined competence and knowledge based qualifications for intermediate pathways 1 to 4, advanced pathways 1 to 4 and to the competence and knowledge based qualifications for intermediate pathway 5 of this framework this framework has been undertaken. This shows that reflective learning skills are contained within the following units that form part of the Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7), Marine Engineering (ref: 600/3147/5) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (Near coastal) (Ref: 600/8403/0) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal) (Ref: 600/8404/2)

- Emergency first aid in responses to maritime accidents or medical emergencies (A/602/3872)
- Vessel ropework, anchoring and mooring operations (K602/3897)
- Vessel construction and stability (T602/3904)
- Maintain your own work practice (M/602/4436)
- Assemble, operate and maintain fishing gear (A/602/3878)
- Survival in the water during maritime emergencies (Y/602/3071)
- Control vessel operations (L/602/5352)
- Control and survival craft and rescue boats (L/602/5321)
- Academic study skills ((A/503/4961
- Fundamental IT and communication skills (M/503/4969)
- Chartwork and tides (L/602/5318)
- Respond to navigational emergencies (M/602/5411)
- Provide medical first aid on board a vessel (D/602/5436)
- Respond to emergencies on board a vessel (K/602/5438)
- Provide a fire fighting response on board a vessel (Y602/5435)

and **All** units that comprise the Level 2 Certificate in Port Operations and the Level 2 Certificate in Stevedoring Essentials (pathway 5)

Team working

Team working involves:

- collaborating with others to work towards common goals
- reaching agreements, managing discussions to achieve results
- adapting behaviour to suit different roles and situations, including leadership roles
- showing fairness and consideration to others

- taking responsibility, showing confidence in yourself and your contribution
- providing constructive support and feedback to others.

Mapping of Team Working to the combined competence and knowledge based qualifications for intermediate pathways 1 to 4, advanced pathways 1 to 4 and to the competence and knowledge based qualifications for intermediate pathway 5 of this framework this framework has been undertaken. This shows that creative thinking skills are contained within the following units that form part of the Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7) Marine Engineering (ref: 600/3147/5) , Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels up to 500 gross tonnage (Near coastal) (Ref: 600/8403/0) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels up to 3,000 gross tonnage (Near coastal) (Ref: 600/8443/2)

- Survival in the water during maritime emergencies(Y/602/3071)
- Marine employment environment and health and safety practice (Y/501/2738)
- Vessel ropework, anchoring and mooring operations (K/602/3897)
- Vessel construction and stability (T/602/3904)
- Assemble, operate and maintain fishing gear (A/602/4021)
- Maritime Security (K/602/3866)
- Introduction to navigation (F/503/4958)
- Introduction to marine engineering systems((Y/503/4965)
- Vessel navigation and tides (F/602/4019)
- Contribute to vessel stability and watertight integrity (R/602/5319)
- Respond to navigational emergencies (M/602/5411)
- Control vessel operations (A/602/5766)
- Take charge of a navigational watch in a near coastal area (A/602/5444)
- Control vessel communications (L/602/5352)

And **All** units that comprise the Level 2 NVQ Certificate in Port Operations and Level 2 Certificate in Stevedoring Essentials **except** the following:

- Move or handle goods manually

Self management

Self management involves:

- seeking out challenges or new responsibilities and showing flexibility when priorities change
- working towards goals, showing initiative, commitment and perseverance

- organising time and resources, prioritising actions
- anticipating, taking and managing risks
- dealing with competing pressures, including personal and work-related demands
- responding positively to change, seeking advice and support when needed
- managing your emotions and building and maintaining relationships

Mapping of Self Management to the combined competence and knowledge based qualifications for intermediate pathways 1 to 4, advanced pathways 1 to 4 and to the competence and knowledge based qualifications for intermediate pathway 5 of this framework has been undertaken. This shows that self management skills are contained within the following units that form part of the Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7) Marine Engineering (ref: 600/3147/5) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (Near coastal) (Ref: 600/8403/0) and Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal) (Ref: 600/8404/2)

- Maritime employment environmental and safety practice (Y/602/3071)
- Maritime fire prevention and fire actions (D/602/3878)
- Vessel ropework, anchoring and mooring operations (K/602/3897)
- Vessel construction and stability (T/602/3904)
- Securing a vessel for a passage (H/602/3904)
- Maintain your own work practice (R/602/4025)
- Basic vessel engineering systems (H/602/3882)
- Vessel repair and maintenance (D/602/3885)
- Assemble and operate fishing gear (A/602/4021)
- Receiving, handling and stowing the catch on a fishing vessel (F/602/4022)
- Assist with cooking on a vessel (optional unit) (R/602/4025)
- Introduction to navigation (F/503/4958)
- Fundamental IT and communication skills for engineers (M/503/4969)
- Vessel navigation and tides (T/602/4019)
- Control vessel mooring, anchoring and securing operations (Y/602/5323)
- Respond to navigational emergencies (M/602/5411)
- Provide medical first aid on board a vessel (D/602/5436)
- Respond to emergencies on board a vessel (K/602/5438)
- Provide a fire fighting response on board a vessel (Y602/5435)

and **all** units contained within the Level 2 NVQ Certificate in Port Operations and the Level 2 Certificate in Stevedoring Essentials (pathway 5)

Effective participation

Effective participation involves:

- discussing issues of concern, seeking resolution where needed
- presenting a persuasive case for action
- proposing practical ways forward, breaking these down into manageable steps
- identifying improvements that would benefit others as well yourself
- trying to influence others, negotiating and balancing diverse views to reach workable solutions
- acting as an advocate for views and beliefs that may differ from your own.

Mapping of Effective Participation to the combined competence and knowledge based qualifications for intermediate pathways 1 to 4, advanced pathways 1 to 4 and to the competence and knowledge based qualifications for intermediate pathway 5 of this framework has been undertaken. This shows that effective participation skills are contained within the following units that form part of the Level 2 Maritime Studies Qualifications (pathways 1 to 4), the Level 3 Diploma in Shipping and Maritime Operations (ref: 600/0255/4), both deck and engineering pathways and the Level 3 Diplomas in Nautical Science (ref:600/3148/7), Marine Engineering (ref: 600/3147/5), Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 500 gross tonnage (Near coastal) (Ref: 600/8403/0) and Level 3 Diploma in Maritime Studies; Officer of the watch on merchant vessels less than 3,000 gross tonnage (Near coastal) (Ref: 600/8404/2)

- Maritime employment, environmental and health and safety practices (Y/602/3071)
- Emergency first aid in response to maritime accidents or medical emergencies (A/602/3872)
- Maintain your own work practice (M/602/4436)
- Maritime security (K/602/3866)
- Control vessel operations (L/602/5352)
- Academic study skills (A/503/4960)
- Fundamental IT and communication skills for engineers (M/503/4969)
- Vessel navigation and tides (F/602/4019)
- Control vessel mooring, anchoring and securing operations (Y/602/5323)
- Respond to navigational emergencies (M/602/5411)
- Control vessel operations (A/602/5766)
- Control vessel communications (L/602/5352)
- Take charge of a navigational watch in a near coastal area (A/602/5444)

and **all** units comprising the Level Two NVQ Certificate in Port Operations and the Level Two Certificate in Stevedoring Essentials, **except** the following:

- Support cargo handling operations associated with Ro/Ro vessels
- Work safely when alone
- Work safely at heights

Additional employer requirements

(no information)

apprenticeship
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