

An aerial photograph of four Royal Navy ships sailing in formation on a dark blue ocean. The ships are viewed from above, leaving white wakes behind them. A large teal circle is superimposed over the center of the image, containing the title text.

INTERNATIONAL DEFENCE TRAINING

Course Catalogue

GLOBAL MODERN READY



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SECTION 1

INTRODUCTION



INTERNATIONAL DEFENCE TRAINING (ROYAL NAVY)

The Royal Navy (RN) has a long and proud tradition of training international Service and Civilian personnel. Regarded as a leader in the provision of military training, the RN provides a wide range of training throughout the UK.

The aim of International Defence Training (IDT) IDT(RN) is to promote and deliver UK based maritime training to overseas military students. The IDT(RN) staff provide a link between the individual training establishments and overseas customer countries, primarily through the UK Defence liaison system.

This catalogue outlines many of the RN and Royal Marine (RM) courses that are available. Training can be provided for most specialisations and equipment currently used by the RN and RM. Availability is subject to course capacity and any overriding security constraints. Additional courses are available and details on these can be provided upon request.

IDT(RN) provides a substantial and meaningful contribution to Defence Engagement whilst helping to establish long term relationships in the wider international defence community.

HOW TO BOOK COURSES?

Training requests are received via a country's High Commission / Embassy in London or through the UK Defence Attaché in the country concerned.

A written request (either letter or e-mail) should be sent to IDT(RN) with details of the training required and how it will be funded (see fees and funding for further information). Ideally, training requests should be with IDT(RN) six months before the start of the course, although every effort will be made to accommodate requests at shorter notice.

WHAT HAPPENS NEXT?

On receiving the application IDT(RN) will confirm availability of the training course dates and costs, as well as any necessary entry standards and security clearances required.

A formal offer of training will then be sent. This will confirm the conditions of the training including the dates, number of student places, and prices (tuition as well as messing and accommodation costs). The offer will also include the date that a response is required by to confirm the places. The offer will also specify when the individual student details and Certificate of Security and Assurance for each attendee need to be submitted. Acceptance of offers of training is a formal agreement to the notified conditions and charges.

If no reply is received by the date specified in the offer letter it will be assumed that the training places are no longer required and that they may be re-allocated to another customer.

INTERNATIONAL DEFENCE TRAINING (ROYAL NAVY)

ENGLISH LANGUAGE

Courses are conducted in English, and all students will need to confirm their International English Language Test Score (IELTS) before their nomination is accepted. On most of the course pages in this catalogue the expected IELTS level is listed. For other courses, IDT(RN) will be able to provide advice of the expected standard. The IELTS test is available at British Councils in most capital cities around the world.

Key IELTS Scores:

7 (Good User) – has operational command of the language, though with occasional inaccuracies and misunderstandings in some situations. Generally handles complex language well and understands detailed reasoning.

6 (Competent User) – has generally effective command of the language despite some inaccuracies and misunderstandings. Can use and understand fairly complex language, particularly in familiar situations.

5 (Modest User) – has partial command of the language, coping with overall meaning on most situations, though is likely to make many mistakes. Should be able to handle basic communication in own field.

PERFORMANCE ON COURSE

The continuous monitoring of students throughout training enables instructors to identify those who have potential problems meeting course standards.

The sponsor, and where appropriate the London-based Defence Attaché for the country, will be informed in instances where the student is failing to progress or problems are occurring that could lead to a withdrawal from training.

STUDENT ACCOMMODATION

The majority of RN Establishments allow international students to be accommodated in service accommodation alongside their UK counterparts at the appropriate level according to rank. This allows the wider professional and social interaction and is considered an important and mutually beneficial part of the training. IDT (RN) will arrange RN accommodation and advise on charges. Students who choose to live in private accommodation will be expected to make their own arrangements, including booking and payment as well as transportation to the training location. Some courses require students to be accommodated at the training establishment. IDT(RN) will advise here this is mandated.

INTERNATIONAL DEFENCE TRAINING (ROYAL NAVY)

COURSE FEES

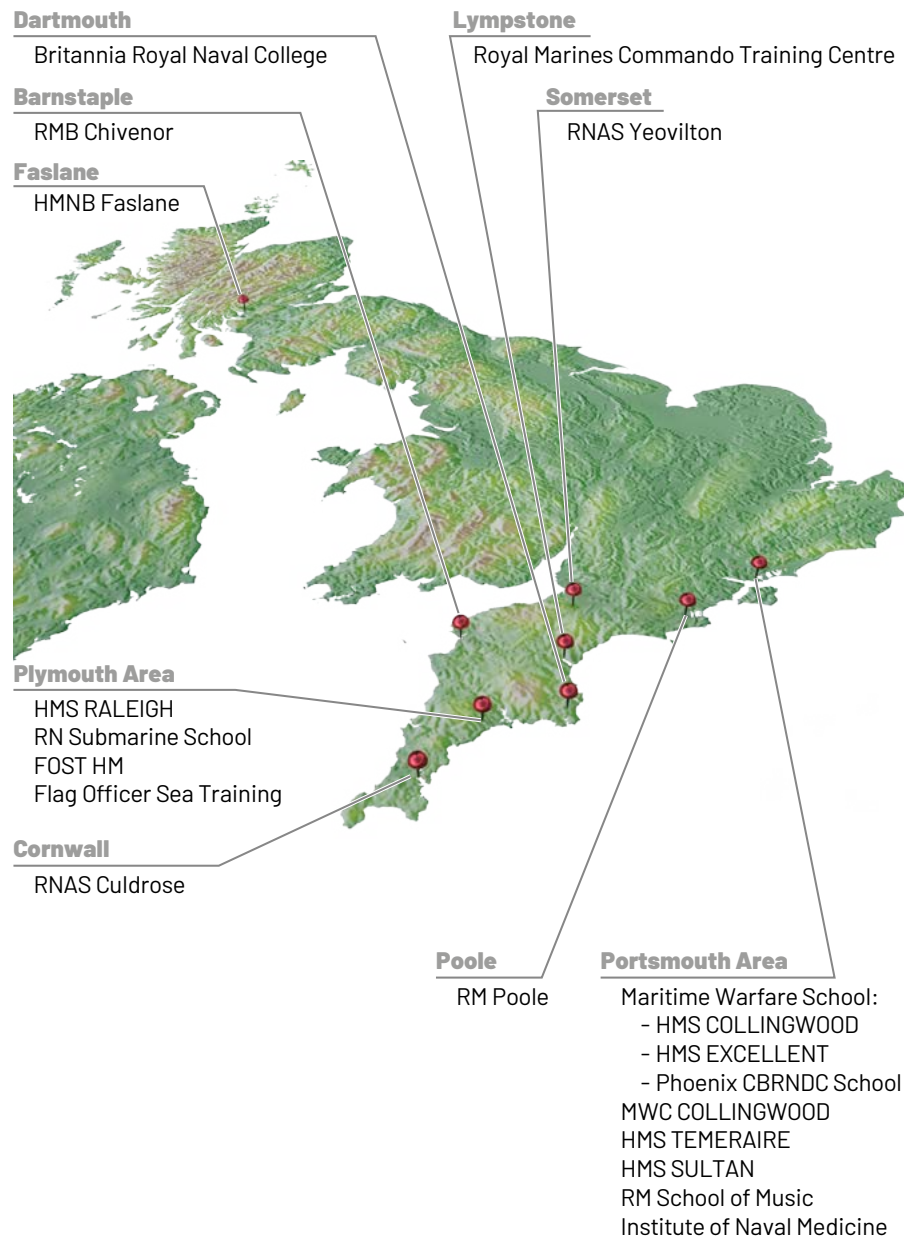
All UK training must be paid in advance; any cancellations made within three months of the course start date may be subject to a charge. The normal arrangement is that an invoice will be raised by IDT(RN) before the start of course. This will request payment of the course fee and the appropriate messing and accommodation charges.

Fees cover:

- ♦ Tuition costs
- ♦ Messing and accommodation charges
- ♦ Transport and allowances on visits made as part of the course
- ♦ Emergency medical and dental treatment provided by the UK Armed Forces Medical Services. All students should arrive medically and dentally fit for training and any pre-existing health conditions will not be treated
- ♦ The loan of working/protective clothing and kit as necessary for the conduct of the course

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TRAINING LOCATIONS



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IELTS TEST RESULTS DEFINITIONS

IELTS provides a profile of a candidate's ability to use the English language. Candidates receive scores on a Band Scale from 1 to 9. A score is reported for each module of the IELTS test. The individual module scores are then averaged and rounded to produce an overall score.

Band	Linguistically demanding academic courses (Medicine, Law, Linguistics, Journalism, Library Studies)	Linguistically less demanding academic courses (Agriculture, Pure Mathematics, Technology, Computer-based courses)	Linguistically demanding training courses (Air Traffic Control, Engineering, Sciences, Industrial Safety, RNYOC)	Linguistically less demanding training courses (Animal Husbandry, Catering, Fire Services)
7.5 – 9.0	Acceptable	Acceptable	Acceptable	Acceptable
7.0	Probably acceptable	Acceptable	Acceptable	Acceptable
6.5	English study needed	Probably acceptable	Acceptable	Acceptable
6.0	English study needed	English study needed	Probably acceptable	Acceptable
5.5	English study needed	English study needed	English study needed	Probably acceptable

(Source: IELTS Handbook)

IELTS TEST RESULTS DEFINITIONS

IELTS BAND SCORES

9 Expert user - Has fully operational command of the language: appropriate, accurate and fluent with complete understanding.

8 Very good user - Has fully operational command of the language with only occasional unsystematic inaccuracies and inappropriacies. Misunderstandings may occur in unfamiliar situations. Handles complex detailed argumentation well.

7 Good user - Has operational command of the language, though with occasional inaccuracies, inappropriacies and misunderstandings in some situations. Generally handles complex language well and understands detailed reasoning.

6 Competent user - Has generally effective command of the language despite some inaccuracies, inappropriacies and misunderstandings. Can use and understand fairly complex language, particularly in familiar situations.

5 Modest user - Has partial command of the language, coping with overall meaning in most situations, though is likely to make many mistakes. Should be able to handle basic communication in own field.

4 Limited user - Basic competence is limited to familiar situations. Has frequent problems in understanding and expression. Is not able to use complex language.

3 Extremely limited user - Conveys and understands only general meaning in very familiar situations. Frequent breakdowns in communication occur.

2 Intermittent user - No real communication is possible except for the most basic information using isolated words or short formulae in familiar situations and to meet immediate needs. Has great difficulty understanding spoken and written English.

1 Non user - Essentially has no ability to use the language beyond possibly a few isolated words.

0 Did not attempt the test - No assessable information provided.



SECTION 2

BRITANNIA ROYAL NAVAL COLLEGE



Britannia Royal Naval College (BRNC) is a modern, military college steeped in traditional values, delivering learning that is inspiring, challenging and relevant to meet the Royal Navy's operational capability. It has been at the forefront of the education and development of world class Naval Officers in Dartmouth since 1863. This section shows the Initial Naval Training (Officer) courses available to international navies and maritime organisations, including language preparatory courses.



Reference No

005/034

Duration

29 weeks

Location

Britannia Royal
Naval College,
Dartmouth

Frequency

2 courses
per year

Age

Minimum age 18

INITIAL NAVAL TRAINING (OFFICER) (INT(O))



AIMS OF COURSE

To ensure that the young officer is ready for subsequent phases of specialist training, having completed initial training to prescribed standards and gained an appreciation of the seagoing environment.

To stimulate, inspire and teach a new generation to act and react instinctively as Naval Officers on the front line.

OUTLINE SYLLABUS

INT(O) is delivered to both Royal Navy and International Young Officers. The course is common to all specialisations and lasts for 29 weeks. It is split into 2 terms with 2 entries a year, May and January:

Term 1 – Induction, seamanship, navigation and leadership development, culminating in the Assessed Basic Leadership Exercise (ABLE), a 4 day exercise on Dartmoor, followed by academic studies, further navigation and Naval General Training.

Term 2 – Maritime operations, academics, further navigation, twin screw boat handling, presentation skills and the 6 week Initial Sea Training onboard an operational RN warship, Naval Military Training, strategic studies, Critical Thinking module, seminar presentations, and a 4 day maritime leadership programme, culminating in the 4 day Maritime Leadership Development Program, on the River Dart. The term concludes with ceremonial training and the Passing Out Parade.



Reference No

005/034

Duration

29 weeks

Location

Britannia Royal
Naval College,
Dartmouth

Frequency

2 courses
per year

Age

Minimum age 18

INITIAL NAVAL TRAINING (OFFICER) (INT(O))

ENTRY STANDARDS

All applicants are subject to the following personal standards:

- a. **Age** – Each Young Officer must be over 18 and under 25 years old at the start of the course. Exceptionally, candidates up to the age of 34 may be accepted if they meet the medical and fitness requirements, although experience indicates that older candidates have difficulty with the physical aspects of the course.
- b. **Medical standards** – The course contains a significant amount of physical and mental pressure. As a result all Young Officers entering BRNC are required to be medically, dentally and physically fit on joining with reasonable reserves of stamina.
 - (1) **Pre-Course Medical** – All potential Young Officers are to have full medical and dental examination no more than 3 months before joining. Candidates must be in good general health with no evidence of chronic or current illness or disease. A Medical Certificate completed by a doctor in the candidate's home country, Medical Questionnaire, and Medical Family Origins Questionnaire are to be completed and sent to BRNC Medical Center ahead of joining. During the first week, candidates will attend a review where they undergo a medical examination with a doctor to review their medical status.
 - (2) **Haematological Screening** – Haematological screening for Sickle Cell trait is mandatory. Evidence of Sickle Cell Disease is a barrier for entry. Where screening identifies individuals with Sickle Cell Trait, this is to be communicated to the medical staff at BRNC via IDT(RN).
 - (3) **Eyesight** – Glasses and contact lenses are acceptable. Visual Acuity is to be measured using the Snellen's Chart system. Candidates must not have Visual Acuity and Near Vision assessment (N), achieved with or without correcting lenses, less than:

	BETTER EYE		WORSE EYE	
Either	6/6	N5	6/24	N10
or	6/9	N5	6/18	N10
or	6/12	N5	6/12	N10

- (4) **Hearing** – Candidates are to have an audiometric assessment and must not have hearing loss in either ear, measured in decibels (dB) over 6 frequencies. The hearing standard is derived from a sum of the total hearing loss (dB) within the low and high frequencies as measured by 'pure-tone air conduction' audiometry. Hearing standard profiles are to be at least H2 in each ear.



Reference No

005/034

Duration

29 weeks

Location

Britannia Royal
Naval College,
Dartmouth

Frequency

2 courses
per year

Age

Minimum age 18

INITIAL NAVAL TRAINING (OFFICER) (INT(O))

Hearing Standard	Low Frequency Sum (0.5, 1 & 2 KHz)	High Frequency Sum (3, 4 & 6 KHz)
H1	<45 No single level to be more than 20dB	<45 Level not to be more than 30dB at 6kHz or at 20dB at any other frequency
H2	<84	<123
H3	<150	<210
H8	>150	>210

- (5) **Physique** – Candidates must have a normal physique and be within normal height/weight ratios for their age, maximum Body Mass Index (BMI) of 28.
- (6) **Dental Standards** – Dental treatment is costly both in terms of time and money. Candidates whose dental health is assessed as likely to cause problems will not be allowed to proceed to sea. As a result all candidates are to be in good dental health before joining and have no evidence of dental disease, decay or need for ongoing dental treatment.

c. **Medical and Dental Checks** – Candidates must complete a medical questionnaire prior to joining BRNC and will undergo a full medical screening on arrival. Those outside the above requirements will be considered unfit and returned home. Any queries concerning an individual's fitness to commence training should be directed to the Principal Medical Officer, BRNC.

d. **Physical Standards** – Young Officers undertake a rigorous physical fitness programme and arduous leadership exercises whilst at BRNC. They are expected to participate fully in each session involving a variety of activities such as rope climbing, vaulting and circuit training. The physical training syllabus is designed to produce a progressive development in cardiovascular fitness and endurance. Potential candidates must have a reasonable level of fitness before joining BRNC, and on joining must be capable of:

- (1) Passing S Swimming Test (includes swimming 100m in pair of overalls).
- (2) Running 2.4 Km in 11 minutes 9 seconds.

If unable to swim or unable to achieve a 2.4 Km run within 10% of the required time, candidates will be considered unfit and returned to their national authorities. These are the minimum physical standards required to successfully complete the course at BRNC and candidates undertake a 29 week PT syllabus based on this minimum level of fitness at entry. These sessions are compulsory and form part of the overall syllabus. In general, each person participates in a team sport, relevant to the time of year, on Mondays and another sport on Wednesdays.



INITIAL NAVAL TRAINING (OFFICER) (INT(O))

Reference No

005/034

Duration

29 weeks

Location

Britannia Royal
Naval College,
Dartmouth

Frequency

2 courses
per year

Age

Minimum age 18

e. Academic Standards

- (1) Educational standard to UK GCSE passes of minimum Grade C in English Language and Mathematics of equivalent standard. Desirable to have GCSE pass (Grade C) in Physics or acceptable equivalent standard.
- (2) English Language Standards – Minimum IELTS level 5.5 in all 4 disciplines (speaking, reading, writing and listening). Achievement of IELTS 6 in all 4 disciplines gives greater indication of success on INT(O).



Reference No

005/035

Duration

15 weeks

Location

BRNC Dartmouth

Frequency

2 courses
per year

Age

Minimum age 18

PRE-INITIAL NAVAL TRAINING (OFFICER) – (PRE-INT(O))

AIM OF COURSE

The aim is to provide students with the linguistic, cultural, academic and fitness skills deemed necessary to commence Initial Naval Training (Officer) (INT(O)).

OUTLINE SYLLABUS

The major component is English language training, aiming to have all individuals at IELTS 5.5 by the end of the course.

Other topics covered include:

- ♦ Military language – An introduction to the language used in all aspects of Training
- ♦ Leadership – An introduction to leadership terminology and methods
- ♦ Seamanship and navigation – An introduction to boat driving, bends and hitches and chartwork
- ♦ Ceremonial Training – Being part and taking charge of a marching squad
- ♦ Physical Training – To ensure all candidates are at the required level for Naval Training

EXAMINATION/QUALIFICATIONS GAINED

Regular progress testing throughout the course to provide a close level of monitoring and to provide feedback to national authorities as required on the suitability for onward training

ENTRY STANDARDS

- ♦ **Age** – Each Young Officer must be over 18 and under 25 years old at the start of the course. Exceptionally, candidates up to the age of 34 may be accepted if they meet the medical and fitness requirements, although experience indicates that older candidates have difficulty with the physical aspects of the course
- ♦ **Medical Standards** – As for INT(O)
- ♦ **Medical and Dental Checks** – As for INT(O)
- ♦ **Physical Standards** – Given this 15-week training package leads directly to BRNC's INT(O) program, the fitness levels upon arrival should be as close to the INT(O) standards as possible. Throughout this training package, Young Officers will be required to participate in all physical training opportunities provided (3-5 times a week) in order to maintain/improve their levels of fitness, in order to successfully advance to INT(O)

ACADEMIC STANDARDS

- ♦ **Educational Standards** – As for INT(O)
- ♦ **English Language Standards** – Minimum IELTS 4.5 in all disciplines (speaking, reading, writing and listening)

International Defence Training (Royal Navy)

www.royalnavy.mod.uk/idt

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SECTION 3

INTERNATIONAL MARITIME TRAINING TEAM (IMTT)



This section shows the opportunities for training to be delivered in country or by the Commander Fleet Operational Sea Training (COM FOST) in the UK's North and South Exercise areas.

INTERNATIONAL MARITIME TRAINING TEAM

When a nation would like to provide training to a number of its military personnel or seek assurance on current practices, when it would be more convenient and cost-effective to achieve this at home then the International Maritime Training Team (IMTT) can be provided for in-country training and support. The IMTT are able to deliver training and assurance in a number of subject areas all of which can be found in this section.



INTERNATIONAL DEFENCE TRAINING – MARITIME TRAINING TEAM (IMTT)



When a nation would like to provide training to a number of its military personnel or seek assurance on current practices, when it would be more convenient and cost-effective to achieve this at home then the International Defence Training – Maritime Training Team (IMTT) can be provided for in-country training and support.

The IMTT is able to deliver training and assurance in a number of subject areas (detailed on separate pages) from which a comprehensive and appropriate training package can be constructed to fulfil the training requirement as identified during a Training Needs Analysis or scoping visit preceding the training delivery. A single subject matter expert or multi-disciplinary team tailored to meet specific requirements can be deployed to any area to deliver bespoke training, depending on the size of the request and as best befits the host nation's needs.

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**Duration**

5-10 days
classroom
theory and
practical

Location

In Country

Max Capacity

30 personnel
(OR6 to OF3
and civilian
equivalent)

IELTS

5.5 but can be
delivered via
translator)

IMTT – MARITIME SECURITY PLANNING

**AIM OF SUBJECT**

Maritime Security (MarSy) training provides International Maritime Students (IMS) with the process, tools, knowledge and understanding to conduct Host Nation's maritime security operations planning within claimed maritime boundaries and, local and international laws and treaties in a variety of operational setting.

OUTLINE SYLLABUS

This subject is a familiarization of maritime tactical planning and maritime security, based on UK National Strategy activities and concepts. It is designed for both NCOs to Junior Officer (and civilian equivalent) to develop an understanding of:

- ♦ Maritime Tactical Estimate Process and tools
- ♦ Maritime domain Awareness (incl. UNCLOS)
- ♦ Establish maritime security objectives
- ♦ Assess maritime security risks
- ♦ UK Maritime Security
- ♦ Highlight approach to preparing and conducting maritime security operations in International Waters and Territorial Seas

**Duration**

5-10 days
classroom
theory and
practical

Location

In Country

Max Capacity

30 personnel
(OR6 to OF3
and civilian
equivalent

IELTS

5.5 but can be
delivered via
translator)

IMTT – MARITIME SECURITY PLANNING

EXAMINATION/QUALIFICATIONS GAINED

On completion, the IMS will be able to:

- ♦ Comprehend and apply the Maritime Tactical Planning Process
- ♦ Explain the Maritime Domain and understand the maritime security objectives
- ♦ Understand the core Maritime Security Tasks
- ♦ Determine international and domestic jurisdictional boundaries pertaining to maritime activities
- ♦ Plan and prepare a maritime security operation (when incorporated with the Maritime Planning Course)
- ♦ Understand the Command and Control (C2) of maritime security operations
- ♦ Understand the comprehensive range of maritime security activity

REMARKS

This subject is 100% classroom based and will incorporate opportunities for IMS to conduct classroom planning through a scenario based exercise.

**Duration**

5-12 days
(dependent
on experience
and training
requirement)

Location:

In-country

Max Capacity

Up to 3 boarding
teams totalling
no more than 24
personnel

IELTS

5.5

IMTT – BOARD AND SEARCH

**AIM OF SUBJECT**

Board and Search (B&S) training provides the knowledge and basic skills required to conduct board and search operations within a permissive environment. Counter-narcotics is the most well known mission, however, B&S functions also include fisheries protection, interdiction of smugglers and illegal immigrants.

OUTLINE SYLLABUS

This subject is a familiarization of board and search procedures, techniques and fundamentals. It is designed for both junior and senior personnel who are assigned to units expected to conduct board and search operations in International Waters or Territorial Seas. The subject curriculum focuses primarily on reducing unnecessary risks to the Boarding Team while maximizing use of effective law enforcement techniques such as:

- ♦ Phases of Boarding Ops including preparations, planning, execution and recovery
- ♦ Communications
- ♦ Search Awareness
- ♦ Personal search techniques
- ♦ Interview techniques
- ♦ Maritime Tactical Estimate
- ♦ Table Top Tactics

**Duration**

5-12 days
(dependent
on experience
and training
requirement)

Location:

In-country

Max Capacity

Up to 3 boarding
teams totalling
no more than 24
personnel

IELTS

5.5

IMTT – BOARD AND SEARCH

- ♦ Search procedures
- ♦ Use of Force
- ♦ Evidence Handling
- ♦ Ships Documentation
- ♦ Arrest/Detention Procedures
- ♦ Boarding Exercises (dry drills and underway boardings)

EXAMINATIONS/QUALIFICATIONS GAINED

On completion, the IMS will be able to:

- ♦ Determine international and domestic jurisdictional boundaries as they pertain to maritime activities
- ♦ Prepare a team to conduct a boarding at sea
- ♦ Arrest or detain a subject
- ♦ Properly utilize the Use of Force (UOF) continuum during a boarding scenario. Complete a reality based boarding scenario utilizing techniques and tactics learned throughout the subject in a safe and effective manner
- ♦ Demonstrate the appropriate level of the UOF continuum during reality based scenarios
- ♦ Detect and identify hidden compartments on a vessel where contraband may be located
- ♦ Detect and identify common occupational hazards on board vessels
- ♦ Properly identify and test illicit substances

REMARKS

Practical simulated boarding exercises are designed to reinforce instruction by giving each IMS an opportunity to apply classroom theory. The subject is approximately 60% classroom based and hands-on instruction with remaining 40% delivered through practical exercises.

**Duration**

10 days

Location:

In-country

Max Capacity

30 personnel
OR7 to OF4
or civilian
equivalent

IELTS

5.5 but can be
delivered via a
translator

IMTT – INTEGRATED MARITIME MISSION PLANNING (IMMP)

AIM OF SUBJECT

The aim of this subject is to develop an understanding of the doctrine, planning and conduct of joint maritime operations at the Command level and below. During the course attendees receive an overview of planning processes and considerations at Command level and education in the 7 Question Maritime Estimate (7QMTE) process and planning tools. The planning phase can be preceded by enabling lectures covering maritime issues (UNCLOS, RoE, Maritime Security, Maritime Domain Awareness, Aviation, Maritime Logistics, Maritime Warfare) from the operational to the tactical level. The subject is suitable for officers from SO2 to OF5, selected for OR7 to OF4 or civilian equivalent, as staff officers in a Command Planning Staff or an integrated mission planning team (National Crisis Emergency Response Team).

OUTLINE SYLLABUS

Applicants will be provided an introduction to the seven question maritime tactical estimate (7QMTE). The subject consists of an classroom instruction and practical syndicate planning work using dynamic combinations of presentations, syndicate work and a tactical floor exercise.

It also refreshes and includes:

- ♦ Basic doctrine and legal knowledge
- ♦ Introduction to information management and exploitation
- ♦ Introduction to war gaming and operations

The syndicate work will look at unit level problems and work through the generation of a simple estimate. It should be noted that although elements of NATO, Allied and Joint doctrine are considered the course will predominantly consider UK Doctrine.

EXAMINATIONS/QUALIFICATIONS GAINED

On completion the International Maritime Student (IMS) will:

- ♦ Have a greater understanding of the planning process for maritime operations
- ♦ Be able to utilise more effectively and efficiently the maritime planning process and planning tools
- ♦ Understand doctrine and planning of maritime operations up to the 1 Star Command level
- ♦ Have an appreciation of planning in the joint and combined environment
- ♦ Identify staffing, information management and exploitation, organisation, command control and resource management
- ♦ Create a valid, comprehensive maritime plan
- ♦ Identify supporting documentation and orders to conduct maritime plan
- ♦ Apply the maritime planning process to contingency, emergency and crisis management planning

International Defence Training (Royal Navy)

www.royalnavy.mod.uk/idt

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**Duration**

Minimum 5 days
(dependent
on training
requirements)

Max Capacity

20 personnel

IMTT – SEAMANSHIP/ SHIP HUSBANDRY

AIM OF SUBJECT

To promote the safe conduct of seamanship evolutions and activities to facilitate the highest operational capability of units.

OUTLINE SYLLABUS

The IMTT staff will provide assurance visits and/or training in identified /requested seamanship areas/evolutions, focusing on the paramount safety and Command and Control. In addition ship husbandry will be covered to ensure the most effective and timely maintenance is conducted on seamanship equipment to enable its availability to Command.

EXAMINATION/QUALIFICATIONS GAINED

On completion the IMS will be able to:

- ♦ Conduct seamanship evolutions safely and effectively*
- ♦ Understand the importance of Sea Survival Equipment and the necessary maintenance and management
- ♦ Conduct ship husbandry and understand the importance of maintenance management system

** Specific seamanship evolutions will need to be agreed prior to training delivery.*

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Duration

Theory 5 working days minimum

Practical 5 working days minimum

Max Capacity

Maximum of 5 personnel for each available small boat/patrol boat up to a maximum of 20 personnel (4 boats). For Offshore Patrol Vessel, capacity is 8

IELTS

6.5

IMTT – NAVIGATION



AIM OF SUBJECT

Navigation is a key skill required by all coxswains and leaders at sea. This subject is designed to enhance the host nation's operational navigation skills and deployment capabilities, enabling vessels to safely and effectively deploy in appropriate weathers, by day and night, either coastal or offshore.

OUTLINE SYLLABUS

This subject is conducted in 2 modules. Basic navigation will teach a student how to navigate in favourable coastal conditions during daylight hours. Advanced navigation will progress what has been learned on the basic subject and train a student to navigate at night, in restricted visibility and in rough weather conditions.

Students will also be given an appropriate level of understanding of the International Regulations for Prevention of Collision at Sea (IRPCS) and meteorology. Both basic and advanced navigation will include instruction and practice in navigating their own craft, be it a 7m Rigid Inflatable Boat or 30m Patrol Vessel appropriately, whilst using the appropriate navigation techniques. IMS must have a basic level small craft handling experience.

**Duration**

Theory 5 working days minimum

Practical 5 working days minimum

Max Capacity

Maximum of 5 personnel for each available small boat/ patrol boat up to a maximum of 20 personnel (4 boats). For Offshore Patrol Vessel, capacity is 8

IELTS

6.5

IMTT – NAVIGATION

EXAMINATIONS/QUALIFICATIONS GAINED

On completion the International Maritime Students (IMS) will be able to:

- ♦ Understand and apply IRPCS
- ♦ Understand buoyage
- ♦ Conduct coastal navigation day and night
- ♦ Recognise the hazards to safe navigation



Duration

Theory refresher
4 working days
Practical 6
working days
minimum
dependant
on number of
warfare teams to
be trained

Max Capacity

Not specified

IMTT - WARFARE (ANTI-AIR WARFARE (AAW), ANTI-SURFACE WARFARE (ASuW), ANTI-SUBMARINE WARFARE (ASW), MINE WARFARE (MW) SUB-TEAM TRAINING



AIM OF SUBJECT

Provide warfare environment teams with the knowledge, understanding and practical skills to conduct warfare in the AAW, ASuW, ASW and MW environments.

OUTLINE SYLLABUS

The IMTT can be used to ensure that ship(s) warfare teams have the necessary understanding of the doctrine and concepts (i.e. basic standard operating procedures, techniques and tactics) and maintaining standards required to effectively and efficiently conduct AAW, ASuW, ASW and MW. Practical warfare training will utilise host nation training resources (training simulation ashore or ships at sea).

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**Duration**

5 days

Max Capacity

25 personnel

IELTS

5.5

IMTT - INTERNATIONAL REGULATIONS FOR PREVENTION OF COLLISIONS AT SEA (IRPCS)

AIM OF SUBJECT

The IRPCS state the rules to be adhered to by all vessels on the high seas regardless of type, organisation or location. It is important that all users have a good understanding and are able to implement as required. It is essential that maritime law enforcement professionals have a comprehensive understanding and can demonstrate a high level of knowledge and capability whilst at sea to other sea users. Maritime professionals will also require a thorough knowledge if having to deal with maritime collisions or incidents and the subsequent investigation.

OUTLINE SYLLABUS

No prior knowledge is required. The subject is all classroom based and works through the 5 parts and 4 Annexes of the IRPCS. The subject is taught through reading, power-point, examples and exercises.

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**Duration**

10 days
(dependent on
experience)

Max Capacity

24 personnel

IMTT – BASIC MARITIME SEA SAFETY

AIM OF SUBJECT

Provide International Maritime Student (IMS) of any specialisation with a basic theoretical and practical knowledge of sea safety as required under The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).

OUTLINE SYLLABUS

IMS will be instructed in the following

- ♦ Firefighting and Damage Control organisation, equipment and techniques
- ♦ Sea survival theory and practical drills
- ♦ Practical firefighting and damage control
- ♦ Elementary First Aid
- ♦ Evacuation Procedures

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**Duration**

10 days

Max Capacity12 dependent on
craft availability**IELTS**

6.5

Essential as
a lower level
of english
proficiency will
increase risk of a
maritime safety
incident

IMTT – SMALL BOAT HANDLING (BASIC & ADVANCED)

AIM OF COURSE

Basic – To instruct new students or those with limited small boat experience or formal training in the skills required to handle a RiB, small patrol craft of up to 24m, or equivalent, by day and night, or in rough weather, and under supervision as part of a boat group. The successful student will be able to participate in Maritime Operations as required by their Service.

Advanced – To instruct students who have completed the basic course, or equivalent, and have gained relevant experience in the skills required to handle a RiB, small patrol craft of up to 24m, or equivalent, by day and night, and in all weather conditions. The successful student will be able to participate and lead a boat group in Maritime Operations as required by their Service.

OUTLINE SYLLABUS

- ♦ Basic Engineering
- ♦ Seamanship
- ♦ Craft Handling
- ♦ Towing
- ♦ Man Over Board Recovery
- ♦ Navigation
- ♦ International Regulations for Preventing Collisions at Sea (IRPCS)
- ♦ Global Maritime Distress and Safety System (GMDSS)
- ♦ Search and Rescue
- ♦ Command – Advanced only
- ♦ Instruction follows IMRF Basic Rescue Boat Operator Manual

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Entrance exam for assessment only
- ♦ Week 1 progress test
- ♦ End of Course Examination
- ♦ IMTT Advanced/Basic Course Completion Certificate

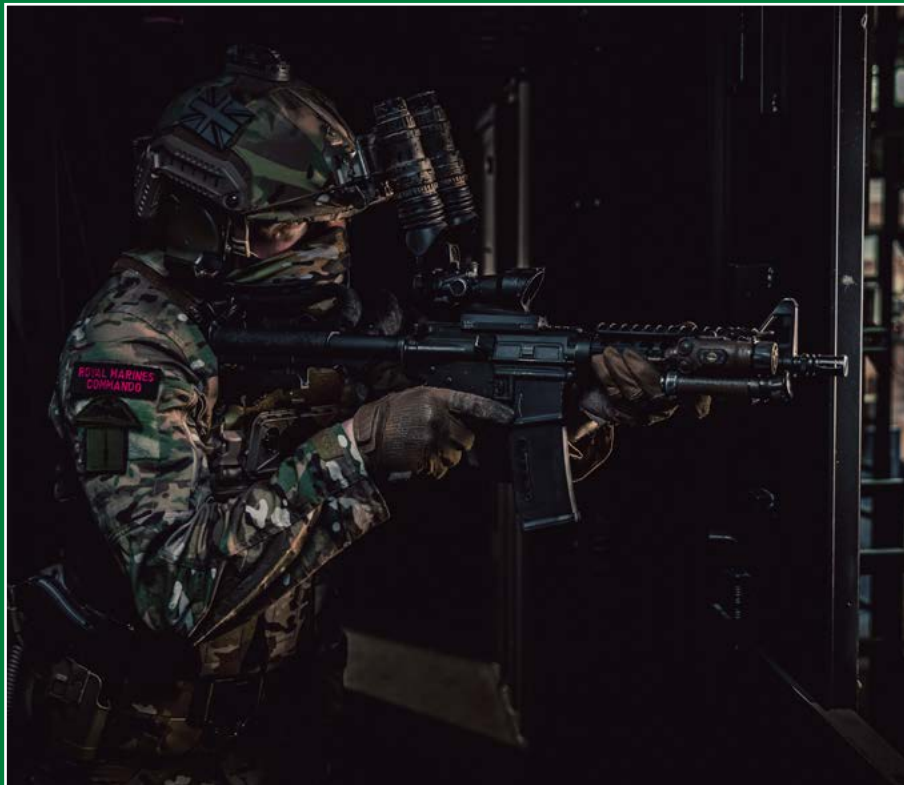
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SECTION 4

ROYAL

MARINES



This section shows Royal Marine training courses held at various Royal Marine locations available to international navies and maritime organisations.

ROYAL MARINES AMPHIBIOUS TRAINING

This section shows Royal Marines Amphibious training courses held at various Royal Marine locations available to international navies and maritime organisations.

ROYAL MARINES BAND SERVICE

This section shows the courses available through the Royal Marines School of Music, Portsmouth to deliver exceptional musical training at all levels.



ENTRY STANDARDS

EYE SIGHT STANDARDS

Visual Acuity (VA) Standard is to be **Standard III**

STANDARD I REQUIREMENTS	RIGHT EYE	LEFT EYE
Visual acuity to be achieved without correcting lenses	6/12 N5	6/12 N5
Visual acuity to be achieved with correcting lenses (contact lenses are not permitted)	6/6 N5	6/6 N5
Refraction Limit		
Total hypermetropia	+ 3.00 sphere	+ 3.00 sphere
Astigmatism	+ 1.25 cyl	+ 1.25 cyl
Myopia (in any meridian)	- 0.75 sphere or cyl	- 0.75 sphere or cyl

STANDARD III REQUIREMENTS	RIGHT EYE	LEFT EYE
Visual acuity to be achieved without correcting lenses	6/60	6/60 or worse
Visual acuity to be achieved with correcting lenses	Either 6/6 N5 Or 6/9 N5 Or 6/12 N5	6/24 N10 6/18 N10 6/12 N10
Refraction Limit		
Spectacle correction (in any meridian)	+ 3.00 sphere + 1.25 cyl - 0.75 sphere or cyl	+ 3.00 sphere + 1.25 cyl - 0.75 sphere or cyl

Colour Perception (CP) Standard is to be **CP 4**, with the exception of Sniper students (**CP 3**) and may be met by:

- ♦ Successful identification of all the transformation and vanishing plates of the 24 plate Ishihara test (meets CP 2 standard)
- ♦ OR the correct recognition of coloured lights shown through the paired apertures of the Holmes-Wright lantern at LOW brightness at 6m distance in complete darkness
- ♦ OR the correcting matching of all coloured wires during Royal Navy trade testing using a coloured wire board (meets CP 4 standard)

International students attending IDT(RN) training courses will be required to present documentary proof of Eyesight and CP standards on arrival on course. Candidates are to have their eye sight tested by their own authorities or by an appropriate medical authority prior to arrival in the UK.



ENTRY STANDARDS

Failure to provide appropriate documentation will constitute a breach of Course Entry Standards and will result in the student(s) being withdrawn from the course.

Further information on these standards can be obtained by contacting IDT(RN).

HEARING STANDARDS

Candidates are to have an audiometric assessment and must not have a hearing loss in either ear, measured in decibels (dB) over 6 frequencies. The hearing standard is derived from a sum of total hearing loss (dB) within the low and high frequencies as measured by 'pure-tone air condition' audiometry. Hearing standards profiles are to be at least H2 in each ear.

Hearing Standard	Low Frequency Sum (0.5, 1 & 2 KHz)	High Frequency Sum (3, 4 & 6 KHz)
H1	<45 No single level to be more than 20dB	<45 Level not to be more than 30dB at 6kHz or at 20dB at any other frequency
H2	<84	<123
H3	<150	<210
H8	>150	>210

PHYSICAL FITNESS REQUIREMENTS

- Experience has underlined the need for students attending all Royal Marines courses, but particularly the All Arms Commando Course (AACC), Royal Marines Young Officers' Course (RMYO) and Physical Training (PT) to be extremely fit, both medically and physically, before commencing training. Weakness in this area often leads to failure or withdrawal from the course, thus depriving the student of the benefit of further instruction and training. It can also prove hazardous to the individual and expose other students to unacceptable risk.
- Prior to attendance on the Commando Conditioning Course or All Arms Commando Course, all candidates must pass an online virtual Pre-Joining Fitness Test (vPJFT). This is conducted by the candidate in their home country and assessed by a Royal Marines Physical Training Instructor (PTI) over the internet. This test is designed to assess an applicant's physical aptitude before travelling to the Commando Training Centre Royal Marines (CTCRM). The vPJFT test criteria can be found overleaf.



ENTRY STANDARDS

3. Upon attendance at the OSC and AACC, candidates must:
 - a. Be able to pass the Royal Marines Fitness Assessment (criteria found overleaf).
 - b. Be able to swim 60 metres in clothing and tread water for 3 minutes.
 - c. Possess an aptitude for, and have practised on, a standard military assault course in boots and loose order.
4. In addition, AACC attendees must also be able to:
 - a. Perform the fireman's carry and half regain using the correct technique.
 - b. Climb a minimum of 30 feet of rope, in boots and Personal Clothing System (PCS), using a good technique.
5. A fitness certificate, signed by the student's Commanding Officer stating that the above standards have been achieved, must accompany the nomination and certificate of security and assurance. These must be sent to IDT(RN) a minimum of 8 weeks before the course commences.
6. A Physical and Functional standards questionnaire is to be completed by the student and authorising Officer. On the first day of training, a disclaimer is to be completed by the student, confirming they are medically and physically fit for training.
7. CTCRM will conduct tests applying the standards given in sub-paragraphs 3a and 3b for all OSC, RMYO, AACC and PT students. Failure to achieve the minimum standard will lead to an immediate Return To Unit (RTU).
8. Students attending the Landing Craft or other waterborne courses and attachments, should possess good colour perception, be capable of swimming 50 metres and then remaining afloat for the remainder of 3 minutes from the time of entering the water.
9. Students for other RM courses should be capable of achieving the standard given in Paragraph 3a.

THE ROYAL MARINES BASIC FITNESS TEST

1. The basic fitness test consists of three parts conducted consecutively:

Part 1: Upper body exercises consisting of 5 pull-ups and 50 sit-ups

Part 2: A squaddied run and walk of 1.5 miles in 15 minutes

Part 3: A best effort run of 1.5 miles in less than 11.5 minutes

A short non-testing set of back exercises will be included after the sit-ups and pull-ups and before the squaddied run/walk.



ENTRY STANDARDS

2. The repetitions and timings listed above are for the 29 and under age bracket and must be adhered to by all potential RMYO, AACC and PT personnel. The full table of repetitions and timings is as follows:

	Sit-Ups	Pull-Ups	Part 3 Timings
29 years and under	50	5	11.5 minutes
30 to 34 years	40	4	12 minutes
35 to 39 years	35	3	13 minutes
40 to 44 years	not required		14 minutes
45 to 49 years	not required		15 minutes

3. Sit-ups must be completed within 2 minutes. Hands must be clasped behind the head and the torso must pass through the vertical on each repetition. Knees may be bent.
4. There is no time limit for pull-ups, but the arms must be fully extended between repetitions. The over grasp must be used.

TEST 1 – PULL-UPS

The dress for the RM BFT is PCS, consisting of trousers, green T-shirt, issued belt, and issued boots or national equivalent.

Figure 1

- ♦ The body hangs in an over-grasp, hands shoulder width apart with arms and body straight

Figure 2

- ♦ The pull up is performed by bending the arms until the chest is brought to the beam or bar and the chin is over the beam or bar
- ♦ The body remains still during this phase. Kicking the legs out to assist the pull up phase is not acceptable
- ♦ The body is then lowered under control, until the arms and body are completely straight (i.e. the starting position)
- ♦ The test finishes if the individual fails to complete a proper repetition or dismounts from the beam or bar. There is no time limit to this test



Figure 1



Figure 2



ENTRY STANDARDS

TEST 2 – SIT UPS

Figure 3



Figure 3

- ♦ The individual lies in a supine position on a mat or suitable area with his knees bent, feet flat on the ground, not more than 8cm apart
- ♦ The arms are bent in an upward position with the elbows pulled back and the fingertips placed on the temples. This position is to be maintained throughout the duration of the assessment
- ♦ The exerciser's partner holds the performer's feet in place for the duration of the test

Figure 4



Figure 4

- ♦ The sit-up is initiated by curling the upper body to the vertical position, whilst keeping the hips on the floor and keeping the fingertips in contact with the head
- ♦ Return to the start position under control ensuring that the shoulder blades and back of the head make contact with the ground (i.e. the starting position)
- ♦ Sit ups are performed for a period of 2 minutes or until the student can no longer continue due to the onset of fatigue. However, rest periods are permitted provided that the correct position is maintained

REMARKS

The course requirement is for attendees to bring 2 x pairs of boots 1 of which must have heel blocks.

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ROYAL MARINES YOUNG OFFICER

Reference No

071/026

Duration

60 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

One course per
year beginning in
September

Age

Minimum age 18



AIM OF COURSE

To develop in a Young Officer the qualities necessary to hold commissioned rank and to train them to command close combat troops in an operational unit.

OUTLINE SYLLABUS

- ♦ Basic military training including weapon handling, field craft, land navigation and drill
- ♦ Military physical training to Commando standards
- ♦ Section and troop level tactics in conventional warfare, operations other than war and Commando operations
- ♦ Command, leadership and management
- ♦ Military skills including signals and first aid
- ♦ Amphibious and helicopter operations
- ♦ An introduction to the wider Royal Navy
- ♦ Strategic Studies



ROYAL MARINES YOUNG OFFICER

Reference No

071/026

Duration

60 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

One course
per year
beginning in
September

Age

Minimum age 18

ENTRY STANDARDS

- ♦ Royal Marines Young Officers are commissioned as second lieutenants for the course, and it is requested that international students be similarly commissioned
- ♦ Not more than 25 years old on joining the course
- ♦ Educational standard equivalent to UK entry of minimum 5 GCSEs including English language and mathematics
- ♦ Attend and pass an Officer Selection Course held at CTCRM which will test against entry criteria standards

EXAMINATION / QUALIFICATIONS GAINED

- ♦ Map reading exam
- ♦ Signals exam
- ♦ Periodic fitness assessments
- ♦ NATO sequence of orders assessment
- ♦ Command and leadership assessment
- ♦ Nuclear, Biological and Chemical exam
- ♦ Strategic studies essay and seminars
- ♦ Termly and end of course exams
- ♦ The Commando Tests
- ♦ Range qualifications
- ♦ Helicopter Underwater Escape Training
- ♦ Embarked Forces Sea Survival Course
- ♦ Battle swimming assessment
- ♦ Defence Instructional Technique

REMARKS

Vacancies depend on Royal Marine training requirements, but will not exceed 6 per course.



Reference No

071/041

Duration

13 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

3 courses
per year

ALL ARMS COMMANDO



AIM OF COURSE

The All-Arms Commando Course (AACC) prepares tri-service personnel for roles within Commando Forces. This includes assignments with UK Commando Forces (UKCF), Commando Helicopter Force (CHF), Maritime Amphibious Brigade 6 (MAB6), or at Commando Training Centre Royal Marines (CTCRM). AACC evaluates individuals on the Commando Ethos – Mindset, Values, and Spirit. The course develops core military skills, physical robustness, and mental resilience necessary for Extremely and Very High readiness in Commando and Littoral Strike operations.

OUTLINE SYLLABUS

- ♦ Field craft & tactics
- ♦ Signals
- ♦ First Aid, health & hygiene
- ♦ Map reading & navigation
- ♦ Organisation & role of Commando forces
- ♦ Skill at Arms with troop weapons
- ♦ Physical fitness
- ♦ Amphibious training
- ♦ Vertical assault

**Reference No**

071/041

Duration

13 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

3 courses
per year

ALL ARMS COMMANDO

ENTRY STANDARDS

- ♦ All ranks must be medically fully deployable (MFD) (P2) and meet weight/BMI requirements as per the Institute of Naval Medicine
- ♦ Candidates must be in-date for Individual Training Requirements (ITRs) and competent in basic first aid, map reading, and military navigation
- ♦ Swim 40 meters in clothing, tread water for 3 minutes, having entered water from 3 meters (RM Basic Swimming Test)
- ♦ In date for the ACMT and the Weapon Handling Test on the 5.56mm SA80 A2 Rifle in accordance with the Army Operational Shooting Manual
- ♦ Pass the Potential Commando Physical Assessment (PCPA)

**Reference No**

071/041

Duration

13 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

3 courses
per year

ALL ARMS COMMANDO

PCPA STANDARDS

Serial (a)	Test (b)	Standards/ Criteria (c)	Details (d)	Failures/Retests (e)
1	RMBFT	RMBFT – 1.5 miles run to be completed in under 11 minutes 30 seconds.	Gymnasium. Test conducted in issued boots with heel block, MTP trousers, and PT T-shirt. Any ranks wishing to wear nonissued boots must present a valid medical exemption chit on arrival. A 1.5-mile squadded warm-up run will be conducted in no less than 15 minutes beforehand. The 1.5-mile test is an individual best effort.	1. If FAIL, RTU (Professional).
4	AMF	2 x 30ft rope climbs (1 x 15lbs in webbing, 1 x clean fatigue). One circuit of Bottom Field assault course within 5 mins. 200m fireman's carry within 90 secs.	All tests conducted in MTP trousers, combat jacket and tshirt or MTP shirt, and issued combat boots. All tests to be conducted wearing webbing containing 15lbs.	1. If a rank fails only 1 element, they are permitted an immediate retest on completion of the AMF assessment. If they achieve the required standard, it is considered a PASS. 2. If a rank fails more than 1 element, or fails the immediate retest, it is considered a FAIL. 3. If FAIL, RTU (Professional).
5	Map Reading Test	Equivalent standard to MATT 5/ITR Navigation.		

**Reference No**

071/041

Duration

13 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

5.5

Frequency

3 courses
per year

ALL ARMS COMMANDO

EXAMINATIONS

Four Commando Tests:

- ♦ **Endurance Course:** Complete 6 miles in 73 minutes with equipment weighing 9.6kg and carrying personal weapon
- ♦ **Tarzan Assault Course:** Complete in 13 minutes with equipment weighing 9.6kg and carrying personal weapon
- ♦ **9 Mile Speed March:** Complete in 90 minutes as a formed body with equipment weighing 9.6kg and carrying personal weapon
- ♦ **30 Mile March:** Complete in 8 hours with equipment weighing 9.6kg and carrying personal weapon and safety stores on a given Dartmoor route as a syndicate

Commando Spirit: Throughout the course, candidates are expected to display the core tenets of the Commando Spirit:

- ♦ **Courage:** Get out front and do what is right
- ♦ **Determination:** Never give up
- ♦ **Unselfishness:** Others before self
- ♦ **Cheerfulness in the face of adversity:** Humour as the heart of morale

REMARKS

Emphasis is on fitness and stamina. All students must be physically prepared on arrival. Students will also be required to demonstrate the Commando Ethos, Mindset and Qualities. Students should also be proficient in the operation of PC 354 and PRC 355 Bowman man-pack radios.

The 4-week Preparation Course run by the Commando Logistics Regiment at RM Chivenor, immediately precedes the AACC. This course provides essential preparation, including SA80 familiarisation, field exercises and Battle Physical Training.

Vacancies depend on RM training requirement and will not exceed more than 5 IDT students per course.



Reference No

Duration

5 weeks total.
Including 2-week
Defence Training
Course (DTc)

Location

Commando
Training Centre
Royal Marines
and local
Training Areas

IELTS

Frequency

4 courses
per year

CORPORALS' LEADERSHIP DEVELOPMENT COURSE

AIM OF THE COURSE

The Royal Marines Corporal Leadership Development Course (CLDC) provides the necessary training required to allow pre-promotion Corporal aspirants to gain the correct leadership knowledge, skills, and attributes to undertake their role as a Corporal within the Royal Marines. This is done through a mixture of theoretical and practical training with a combination of formative and summative assessments. Unless downgraded or otherwise stipulated students must complete all serials of the course program to pass this course.

OUTLINE SYLLABUS

- ♦ **Military Knowledge.** Students will learn the initial stages of the discipline process and how to apply them
- ♦ **Management and Administration.** Students will produce a basic Military Training Programme
- ♦ **Communication Skills.** Students will deliver a presentation on influential Leaders, not necessarily Military
- ♦ **Navigation.** Students are assessed on their individual ability to navigate over arduous terrain in all weather conditions. Students must pass 2 from 3 of the summative assessments to pass this module. Students must also pass 2 from 3 Static Map Reading stances. These assess the student's ability to observe and read topographical information and apply this to the ground in front
- ♦ **Command & Leadership.** Students will be formatively assessed throughout the course on their ability to lead and command, the predominant assessment being the final exercise however command and leadership will be monitored informally throughout
- ♦ **RM Values & Standards.** Students will be assessed throughout the course on their personal approach to leadership, including their application of the RM Values. Individual students Values and Standard will be reviewed on an individual basis by the course instructors and where appropriate they can provide a recommendation to CW CO about removing a student from course given adequate evidence is provided. CO CW reserves the right to remove a student from course with sufficient evidence



Reference No

Duration

5 weeks total.
Including 2-week
Defence Training
Course (DTc)

Location

Commando
Training Centre
Royal Marines
and local
Training Areas

IELTS

Frequency

4 courses
per year

CORPORALS' LEADERSHIP DEVELOPMENT COURSE

- ♦ **Physical assessments (Physical Leadership Risk Mitigation).** The Physical assessments not only identify whether students are physically able to conduct the training but also whether they have the mental fortitude and capacity in reserve to support and lead others (particularly in preparation for the TCC). Students must pass 2 from 3 of the summative assessments to pass this module and be deemed as 'safe' to continue the course prior to exercising on Local Training Areas (LTA). Students will conduct a stretcher race over the Endurance Course and local area during week 4 of the course. This is a team/syndicate event where the attributes of a leader are observed throughout
- ♦ **Leadership and Ethics.** Students will be involved in group discussions and Debate using generate case studies and experiences

ENTRY STANDARDS

- ♦ Age No minimum age. Must adhere to entry standards
- ♦ Rank OR4
- ♦ Students must have been selected for promotion to Corporal and be in date for the respective Royal Marines Fitness Test (RMFT). All students must complete the JPA competencies identified in the Joining Instructions. All students must be individually highly motivated in all respects

QUALIFICATIONS GAINED

- ♦ **Physical**
RMFA, 4 Mile Speed March, LFA
ETL/PTL Physical Training Qualification
- ♦ **Navigation**
3 x Night navigation exercises conducted on arduous terrain in all weathers
3 x Static Map reading stances
- ♦ **Military/Civilian Accreditation**
ILM Level 4 Management and Leadership
Defence Training Qualification



Reference No

Duration

3 weeks total

Location

Commando
Training Centre
Royal Marines
and local
Training Areas

IELTS

Frequency

4 courses
per year

SERGEANTS' LEADERSHIP DEVELOPMENT COURSE

AIM OF THE COURSE

The Sergeant Leadership Development course (SLDC) provides the necessary training required to allow pre-promotion Sergeant aspirants to gain the correct leadership knowledge, skills, and attitudes to undertake their role as Sergeant within the Royal Marines. This is done through a mixture of theoretical and practical training with a combination of formative and summative assessments. Students must complete all serials of the course program to pass this course.

The aim of the testing within SLDC is to ensure individuals have gained the required skillset to be successful within their role as a RM Sergeant.

OUTLINE SYLLABUS

- ♦ **Military Knowledge.** Students will learn the stages of the discipline process and how to apply them. They will complete military knowledge tests during the course
- ♦ **Management and Administration.** Students will produce a Troop level Military Training Programme. They will be assessed on their individual management of Troop / Department administration
- ♦ **Communication Skills.** Students will deliver a 30-minute presentation, on a subject of their choice. Students will also deliver a 10-minute points brief and produce the written work to support the brief
- ♦ **Navigation.** Students are assessed on their individual ability to navigate over arduous terrain in all weather conditions on local training areas. Students will complete a classroom map reading test also
- ♦ **Command & Leadership.** Students will be formatively assessed throughout the course on their personal approach to leadership, coaching and mentoring, including their application of the RM values and spirit
- ♦ **RM Values & Standards.** Students will be assessed throughout the course on their personal approach to leadership, including their application of the RM Values. Individual students Values and Standard will be reviewed on an individual basis by the course instructors and where appropriate they can provide a recommendation to CW CO about removing a student from course given adequate evidence is provided. CO CW reserves the right to remove a student from course with sufficient evidence



Reference No

Duration

3 weeks total

Location

Commando
Training Centre
Royal Marines
and local
Training Areas

IELTS

Frequency

4 courses
per year

SERGEANTS' LEADERSHIP DEVELOPMENT COURSE

- ♦ **Physical assessments (Physical Leadership Risk Mitigation).** The Physical assessments not only identify whether students are physically able to conduct the training but also whether they have the mental fortitude and capacity in reserve to support and lead others (particularly in preparation for the TCC). Students must pass 2 from 3 of the summative assessments to pass this module and be deemed as 'safe' to continue the course prior to exercising on Local Training Areas (LTA). Students will conduct a stretcher race over the Endurance Course and local area during week 2 of the course. This is a team/syndicate event where the attributes of a leader are observed throughout
- ♦ **Leadership and Ethics.** Students will be involved in group discussions and debate using general case studies and experiences. These are conducted by means of Senior Judgemental Training (SJT)

ENTRY STANDARDS

- ♦ Age No minimum age. Must adhere to entry standards
- ♦ Rank OR4/OR6
- ♦ Students must have been selected for promotion to Sergeant and be in date for the respective Royal Marines Fitness Test (RMFT). All students must complete the JPA competencies identified in the Joining Instructions. All students must be individually highly motivated in all respects

QUALIFICATIONS GAINED

- ♦ **Physical**
RMFA, 4 Mile Speed March, LFA
ETL Physical Training Qualification
- ♦ **Navigation**
1 x Classroom based map reading test
- ♦ **Military/Civilian Accreditation**
ILM Level 5 Management and Leadership
Daily Routine Orders (DRO), Troop level training programme & Points brief



Reference No

Duration

5 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

Frequency

4 courses
per year

WARRANT OFFICERS' LEADERSHIP DEVELOPMENT COURSE

AIM OF THE COURSE

The Royal Marines Warrant Officer Leadership Development Course (WLDC) provides the necessary training required to allow pre-promotion WO2 aspirants to gain the correct knowledge, skills and attributes to undertake their role as Warrant Officers within the Royal Marines. This is done through a mixture of theoretical and practical training with a combination of formative and summative assessments. Student must complete all serials of the course program to pass this course.

OUTLINE SYLLABUS

- ♦ **Military Knowledge.** Students will be assessed on their Military Knowledge by their performance on the Amphibious Landing Exercise (ALX)
- ♦ **Management and Administration.** Students will be assessed on their individual management of company administration, orderly room procedures and the practical application of Service Law
- ♦ **Communication Skills.** Students will be assessed on their communication abilities by an individual brief and completing a written Company Move Order exercise
- ♦ **RM values.** Students will be assessed throughout the course on their personal approach to leadership, management, coaching and mentoring, including their application of the RM values and spirit
- ♦ **Leadership and Ethics.** Students will be involved in group discussions and Debate using generate case studies and experiences

ENTRY STANDARDS

- ♦ Age No minimum age. Must adhere to entry standards
- ♦ Rank OR7/8
- ♦ Functional Skills level 2 in Maths and English
- ♦ Working Knowledge of Defence Writing

**Reference No****Duration**

5 weeks

LocationCommando
Training Centre
Royal Marines**IELTS****Frequency**4 courses
per year

WARRANT OFFICERS' LEADERSHIP DEVELOPMENT COURSE

QUALIFICATIONS GAINED

- ♦ Daily Routine Orders Examination
- ♦ Amphibious Landing Exercise Examination
- ♦ Company Move Order Examination
- ♦ Brief Examination
- ♦ Discipline and Orderly Room Examination
- ♦ Trim Manager Qualification
- ♦ Casualty Notification Officer Qualification
- ♦ Warrant Officer Leadership and Development Qualification
- ♦ Discipline and Summary Hearing Qualification
- ♦ ILM Level 7 Management and Leadership



Reference No

071/069

Duration

34 weeks

Location

Commando
Training Centre
Royal Marines
Various field
Locations

IELTS

6

Frequency

One course
per year

MOUNTAIN LEADER 2 (ML2)



AIM OF THE COURSE

To enable successful students to train all ranks in Mountain & Cold Weather Warfare (M&CWW) operations in winter and summer – to a specified standard – including combat survival, skiing, vertical assault and use of all associated equipment. Successful students will be able to lead mountain routes in winter to grade III, instruct military rock climbing to UK 'Severe' standard and have a thorough knowledge of rescue techniques. Students will also be trained as S&R Patrol Leaders and be made ready for operations in this role.

OUTLINE SYLLABUS

- ♦ Vertical assault/climbing
- ♦ Mountain movement
- ♦ Surveillance and reconnaissance (S&R Patrol leader, inc survival)
- ♦ Advanced mountain movement
- ♦ M&CWW instructor

ENTRY STANDARDS

- ♦ NATO Restricted course only
- ♦ Able to write, speak and lecture in English, including technical terms
- ♦ Must have passed a Junior Command course (equivalent) and be capable of instructing and leading
- ♦ Pass ML Selection (includes arduous physical tests)



Reference No

071/069

Duration

34 weeks

Location

Commando
Training Centre
Royal Marines
Various field
Locations

IELTS

6

Frequency

One course
per year

MOUNTAIN LEADER 2 (ML2)

QUALIFICATIONS

- ♦ S&R patrol leader
- ♦ M&CWW instructor
- ♦ Rock climbing (Military)
- ♦ Snow and ice climbing (Military)
- ♦ Basic Ski instructor

REMARKS

Course requires a high degree of motivation and physical fitness. All candidates treated as Royal Marines.



Reference No

Duration

36 weeks

Location

Commando
Training Centre
Royal Marines

Various field
Locations

IELTS

6

Frequency

One course
per year

MOUNTAIN LEADER 1 (ML1)

AIM OF COURSE

To be able supervise and conduct training of all ranks to required standards in Mountain & Cold Weather Warfare (M&CWW) operations in winter and summer, including combat survival, skiing, vertical assault and use of all associated equipment. To be able to lead mountain routes in winter to grade IV, instruct military rock climbing to UK 'Very Severe' standard and have a thorough knowledge of rescue techniques. To be an S&R Patrol Manager and be competent in operating in this role with the Commando Force.

OUTLINE SYLLABUS

- ♦ Vertical assault/climbing instructor/supervisor
- ♦ Advanced mountain movement supervisor and instructor
- ♦ S&R manager
- ♦ M&CWW supervisor and instructor

ENTRY STANDARDS

- ♦ NATO Restricted course only
- ♦ Able to write, speak and lecture in English, including technical terms
- ♦ Must have at least 2 years experience as an ML2
- ♦ Must be a SNCO

QUALIFICATIONS

- ♦ M&CW instructor and supervisor
- ♦ Snow and ice climbing supervisor (Military)
- ♦ Rock climbing and mountaineering supervisor (Military)
- ♦ Advanced Ski Instructors (Military)

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Reference No

071/084

Duration

2 weeks

Location

Commando
Training Centre
Royal Marines/
Live Fire Tactical
Training Areas
(LFTTA)

IELTS

6

Frequency

3 courses
per year

RM FIELD FIRING SAFETY SUPERVISOR

AIM OF COURSE

Achieve the SA (E) (18) and SA (F) (18) range qualifications following Distributed Training syllabus and guidelines.

OUTLINE SYLLABUS

SA (E) (18) qualification: Train ranks to act as Safety Supervisors during Transition to Live Fire Tactical Training (TLFTT) and Live Fire Tactical Training (LFTT) exercises on LFTTA using shoulder-controlled weapons and pistols including:

- ♦ Supervision of Overhead Fire and Flanking Fire for Battle Inoculation
- ♦ Supervision of tripod mounted, soft mounted or vehicle mounted small arms including pintle mounts and shouldercontrolled weapons (does not include weapons fired from under armour)
- ♦ Supervision of night firing with and without illumination

SA (F) (18) qualification: Train ranks to act as a Safety Supervisors during the firing/throwing of the following weapons on purpose-built ranges and if SA (E) (18) is held during LFTT:

- ♦ Light Anti-Tank weapons
- ♦ Grenades
- ♦ Projected grenades

ENTRY STANDARDS

- ♦ Must hold the minimum rank of LCpl or due promotion to LCpl upon successful completion of the course
- ♦ Must be current and competent with all infantry weapons systems used during the course
- ♦ Must be in-date for annual audiometric test, all fitness tests and have a good level of physical robustness due to the arduous nature of the course

EXAMINATIONS/QUALIFICATIONS GAINED

Range Qualifications: SA (E) (18) and SA (F) (18).

Civilian accreditation: DAO Level 2 award in Safe Weapons Handling.

REMARKS

The Field Firing Safety Supervisor Course is encompassed within the final phase of the Royal Marines Skill at Arms (RMSAA) Course. It must be completed by all ranks attending the RMSAA course, but the course may also be attended by ranks who only require the SA (E) (18) and SA (F) (18) range qualifications.

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Reference No

Duration

14 weeks

Location

10 Squadron,
Royal Marines
Tamar,
HMNB
Devonport,
PLYMOUTH

IELTS

6

Frequency

3 courses
per year

LANDING CRAFT 2 (LC2)



AIM OF COURSE

To achieve the objectives stated below plus an elementary understanding of amphibious assault operations and conducting boat group operations.

OUTLINE SYLLABUS

To train Corporal and Marine candidates to:

- ◆ Command an LCVP (sub 24m twin jet)
- ◆ Control of the LAP and assist reception and withdrawal of landing craft
- ◆ Command a section of CRC/IRC
- ◆ Plan and deliver section level amphibious orders
- ◆ Be second coxswain of an LCU (10)
- ◆ Control part of an ABU concerned with reception and withdrawal of landing craft, amphibians and waterproofed vehicles
- ◆ Conduct Littoral Access Point Recce (LAPR) and produce reports
- ◆ Final exercise participation – conducting various tactical operations by day and night and in all weather conditions including reconnaissance, operations, troop insertion plus vehicle insertion
- ◆ Navigation – Assault navigation techniques



Reference No

Duration

14 weeks

Location

10 Training Squadron,
Royal Marines Tamar,
HMNB Devonport,
PLYMOUTH

IELTS

6

Frequency

3 courses per year

ENTRY STANDARDS

- ♦ Be a Corporal or candidate for promotion to Corporal
- ♦ SQEP (Suitably Qualified and Experienced) as LC3 rate
- ♦ Pass Basic Swim Test
- ♦ Pass Royal Marines Fitness Test (RMFT)
- ♦ Pass LC2 entrance exam

EYESIGHT & HEARING STANDARDS

Eyesight and hearing standards are detailed at the beginning of the chapter. Colour perception at CP2.

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Regular progress tests plus final written, oral and practical examinations on all aspects of course
- ♦ Pre-course preparation is essential as there is no time available for revision of LC3 level training. There is an 'in test' in the first week of the course which will test the student's previous knowledge. This is based on LC3 syllabus
- ♦ RYA Coastal Skipper Yacht Master Theory (Tidal) (Shore based)
- ♦ IRPCS – International Regulations for prevention of Collision at Sea
- ♦ LCVP craft handling and command
- ♦ Sect command skills assessed during final exercise planning and delivering orders, and conducting a tactical action
- ♦ Navigation and pilotage

**Reference No**

065/006

Duration

14 weeks

Location

10 Training
Squadron,
Royal Marines
Tamar,
HMNB
Devonport,
PLYMOUTH

IELTS

6

Frequency

2 courses
per year

LANDING CRAFT 1 (LC1)

AIM OF COURSE

To train an LC2 to achieve the objectives stated below and to develop an understanding of amphibious assault operations.

OUTLINE SYLLABUS

To train an LC2 to:

- ♦ Navigation-Assault Navigation technique
- ♦ Coxswain and Command a LCU (10)
- ♦ Beach reconnaissance be able to produce a Class 2 beach survey report and interpret the data implications LAPR
- ♦ Operate as a Boat Group Commander and Boat Group Sergeant.
- ♦ Control that part of an Amphibious Beach Unit (ABU) relating to reception and withdrawal of landing craft
- ♦ Plan and deliver all amphibious training as the Planning Officer, Amphibious
- ♦ Final exercise participation – A final consolidation exercise assessing practical application of all skills learned including the ability to act as Boat Group Commander and Boat Group Sergeant of a range of landing craft in various tactical operations by day and night, in all weather conditions including reconnaissance, operations, troop insertion plus vehicle insertion
- ♦ To be an instructor in the above

ENTRY STANDARDS

- ♦ Pass LC1 entrance examination, based on LC2 course material
- ♦ Must be a Sergeant or senior Corporal. Must have passed the Landing Craft 2 (LC2) course, passed the above examination and be Suitably Qualified and Experienced (SQEP)
- ♦ IRPCS - International Regulations for the Prevention of Collisions at Sea knowledge must be at LC2 standard and will be tested in week 1
- ♦ Pass Basic Swim Test
- ♦ Pass Royal Marines Fitness Test (RMFT)
- ♦ Navigational and practical theory examination

EYESIGHT & HEARING STANDARDS

Eyesight and hearing standards are detailed at the beginning of the chapter. Colour perception at CP2.

**Reference No**

065/006

Duration

14 weeks

Location

10 Training
Squadron,
Royal Marines
Tamar,
HMNB
Devonport,
PLYMOUTH

IELTS

6

Frequency

2 courses
per year

LANDING CRAFT I (LC1)

EXAMINATION / QUALIFICATIONS GAINED

Progress tests in weeks 2, 4, 5, 8 and 10 final written and practical examinations, these cover:

- ♦ General exam (all subjects taught)
- ♦ LCU engineering
- ♦ Rule of the Road
- ♦ Pilotage
- ♦ Assurance and management of Landing Craft Rigging warrants
- ♦ A final tactical exercise where students will demonstrate competency in planning and delivering order at Boat Group Command and Boat Group Sergeant level; command and control tactical actions as Boat Group
- ♦ RYA Yachtmaster Offshore Certificate of Competence (practical examination)
- ♦ Navigational theory and practical examination
- ♦ Craft handling and command of Landing Craft Unit (LCU)

**Reference No**

065/005

Duration

14 weeks

Location

10 Training
Squadron,
Royal Marines
Tamar,
HMNB
Devonport,
PLYMOUTH

IELTS

6

Frequency

One course
per year

LANDING CRAFT OFFICERS' QUALIFYING COURSE (LCOQC)

**AIM OF COURSE**

To train Royal Marines (RM) Captains (OF2) and prepare them as:

- ♦ Boat Group Commander
- ♦ Squadron Landing Craft Officer
- ♦ Amphibious Warfare Staff Officer

OUTLINE SYLLABUS

- ♦ Instruction on landing craft employment
- ♦ Seamanship
- ♦ Engineering
- ♦ Ship husbandry
- ♦ Rule of the road
- ♦ Pilotage
- ♦ Navigation
- ♦ Signals
- ♦ Small Craft Handling
- ♦ Surf Drills including planning and execution of surf training
- ♦ Littoral Access Point Recce (LAPR) and Beach Survey
- ♦ Confirmatory reports
- ♦ Amphibious operational planning, and Landing Craft Orders
- ♦ Boat group drills and procedures

**Reference No**

065/005

Duration

14 weeks

Location

10 Training
Squadron,
Royal Marines
Tamar,
HMNB
Devonport,
PLYMOUTH

IELTS

6

Frequency

One course
per year

LANDING CRAFT OFFICERS' QUALIFYING COURSE (LCOQC)

ENTRY STANDARDS

- ♦ Junior Officers who have completed Young Officer (YO) training and have been a Troop Commander in a Commando Unit, or equivalent experience
- ♦ Possess CP2 colour perception
- ♦ Pass Basic Swim Test
- ♦ Pass Royal Marines Fitness Test (RMFT)

EXAMINATIONS/QUALIFICATIONS GAINED

Regular progress tests throughout course plus final written and practical examinations covering:

- ♦ Landing Craft (all aspects)
- ♦ Signals
- ♦ IRPCS - International Regulations for the Prevention of Collisions at Sea
- ♦ Navigation and Pilotage - Theory and Practical
- ♦ A final consolidation exercise assessing practical application of all skills learned including the ability to act as Boat Group Commander and Boat
- ♦ Group Sergeant of a range of landing craft within a complex tactical scenario
- ♦ Global Maritime Distress and Safety System (GMDSS) Short Range Certificate
- ♦ RYA Advance Powerboat Level 2
- ♦ Coxswain Inflatable Raiding Craft and Commando Raiding Craft (Sub 24m Single Prop and Twin Jet craft)

**Reference No**

201/1000

Duration

8 weeks

Location

UK Various

IELTS

5.5

Frequency3 courses
per year

ROYAL MARINES BOARDING COURSE (RMBC)(OPPOSED)

**AIM OF COURSE**

To train prospective boarding operators to conduct Compliant (L1), Non Compliant (L2) and Opposed (L3) boarding operations and force generate Royal Marines Boarding Teams (RMBT) for embarkation on operational ships.

OUTLINE SYLLABUS

The primary training objective of the RMBC is to train Royal Marines to L3 MIOps in accordance with BRd 1920 RN Boarding Operations . The over-arching training objectives are:

- ♦ To teach, revise and practice boarding techniques, including low vertical access (LVA) and high vertical access (HVA), onto varying size vessels during both day and night
- ♦ To teach safe practices of the special-to-role weapon systems, in particular the L119A1 5.56mm C8 Rifle , the L131A1 Glock 17 Pistol and L74 Remington Combat Shotgun
- ♦ To teach Maritime CQB and revise RM CQB to PW2 CQBI standard
- ♦ To teach, revise and practice maritime CASEVAC procedures and systems
- ♦ To study Maritime Interdiction Operations (MIOps) in order to practice and test commanders in estimate and orders in a maritime environment
- ♦ To teach and practice the use of Manual Methods of Entry (MMoE) and Explosive Method of Entry (EMoE)

**Reference No**

201/1000

Duration

8 weeks

Location

UK Various

IELTS

5.5

Frequency3 courses
per year

ROYAL MARINES BOARDING COURSE (RMBC)(OPPOSED)

- ♦ To give all students an appreciation of hazards and risks associated with Boarding Operations
- ♦ To teach correct methods of equipment care of all boarding equipment
- ♦ To follow the Fast Roping progression of training, to include practical and assessment

ENTRY STANDARDS

Pre training will be conducted to better prepare ranks for the RMBC and maintain a safe system of work. As part of prerequisites week 1, students will need to undertake conversion to the C8 and successfully pass an ACMT.

- ♦ C8 lessons 1-7; Practice period 1-2
- ♦ Weapons Handling Test (WHT) - L119A1 C8, L131A1 Glock 17
- ♦ Battle Swimming Test (BST)
- ♦ Royal Marines Fitness test (RMFT)

EXAMINATIONS/QUALIFICATION GAINED

- ♦ Royal Marines Boarding Operator
- ♦ Royal Marines Boarding 2IC
- ♦ Royal Marines Boarding Team Leader
- ♦ Royal Marines Boarding OCRM

POST COURSE RECOMMENDATIONS

Once ranks have completed the course they will return to their sub-units for continuation training to ensure that they remain deployable for global operations. Should ranks fail elements of the course they will be offered the opportunity to return on the next course.

REMARKS

The RMBC is an 8-week course that allows 42 Cdo RM to generate and sustain its directed MIOps trained workforce to support deployable RMBTs. This enables sub-units to force-generate, deploy and recover detachments for enduring operations whilst maintaining force elements at readiness to meet further task requests by Fleet.

**Reference No**

071/071

Duration

7 weeks

LocationRMASC
BOVINGTON**IELTS**

6

Frequency3 courses per
year

ROYAL MARINES ARMOURED SUPPORT - CLASS 3

AIM OF COURSE

To instruct Viking Operators 3rd class in all aspects of operating with the Viking vehicle (Blackshod environment).

OUTLINE SYLLABUS

- ♦ To be aware of and deliver safety brief to all Embarked Personnel
- ♦ To understand the general mechanical principles of Viking in order to conduct vehicles inspections
- ♦ To operate Viking in both the cross country and public road environments as part of a two-man crew
- ♦ To operate, defend, maintain and administer Viking in a blackshod, amphibious environment, under the general supervision of an AS2 in training or on operations and as part of an independent two-man crew during administrative moves in peacetime
- ♦ To operate the self defence weapon system on Viking

ENTRY STANDARDS

Driver licences C plus E.

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**Reference No**

072/028

Duration

6 weeks

LocationRMASC,
Bovington**IELTS**

6

FrequencyOne course
per year

ROYAL MARINES ARMOURED SUPPORT CLASS 2

AIM OF COURSE

To prepare JNCO's to command and administrate a Section of 4 x ATV(P).

OUTLINE SYLLABUS

- ♦ Vehicle crew life jacket & shark military re-breather training (pool)
- ♦ Sea survival equipment maintenance
- ♦ Non tidal amphibious training
- ♦ Tidal amphibious training
- ♦ Landing point commander course
- ♦ Advanced general mechanical principles
- ♦ M qualification

ENTRY STANDARDS

- ♦ NATO Restricted course only
- ♦ C + E licence or national equivalent
- ♦ Substantive JNCO AS 3 or national equivalent
- ♦ In date for weapon handling tests and battle swimming test

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Battle swimming test
- ♦ Re-Breather training
- ♦ Helicopter underwater escape trainer (Viking underwater escape trainer when it enters service)
- ♦ Landing point commanders course
- ♦ Sea survival equipment maintainers course
- ♦ M Qualification – to allow the JNCO to run section strength battle exercises using in service blank ammunition and pyrotechnics

REMARKS

Marines can attend the course but are unable to use the qualification until they attain substantive Corporal.

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**Reference No**

071/001

Duration

8 weeks

Location

Commando
Training Centre
Royal Marines

Devon**IELTS**

6

Frequency

One or 2 courses
per year

RM COMBAT ASSAULT BREACHERS COURSE

AIM OF COURSE

To train marines as AE3s in order that they can effectively operate in a unit as an Assault Engineer.

OUTLINE SYLLABUS

- ♦ Basic engineer tools and skills
- ♦ Chainsaw training
- ♦ Camp construction and structures, sanitation and concreting
- ♦ Field defences
- ♦ Water supply
- ♦ Basic boat handling
- ♦ Demolitions
- ♦ Mine warfare and booby traps
- ♦ Bridging
- ♦ Cliff assault

ENTRY STANDARDS

Passed AE aptitude

QUALIFICATIONS

- ♦ CS30 Chainsaw maintenance and crosscutting
- ♦ Royal Yachting Association Power Boat Certificate
- ♦ City & Guilds, Basic Military Engineering

REMARKS

The course requires a high level of concentration and the ability to assimilate large amounts of information, as well as being physically demanding at times. A good grasp of basic mathematics is essential.

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**Reference No**

071/002

Duration

9 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

6

Frequency

One course
per year

ASSAULT ENGINEER CLASS 2 (AE2)

AIM OF COURSE

To train AE3 lance corporals and corporals as AE troop section commanders, company commanders' advisors, and AE instructors.

OUTLINE SYLLABUS

- ♦ Basic engineer tools and skills revision
- ♦ Site safety and management
- ♦ Chainsaw training
- ♦ Camp construction and structures, sanitation and concreting design
- ♦ Field defences siting and planning
- ♦ Water supply reconnaissance and management
- ♦ Boat handling
- ♦ Demolitions (to BATSIMS (Battle Simulation) Safety Supervisor)
- ♦ Mine warfare and booby traps
- ♦ Bridging reconnaissance and design
- ♦ Cliff assault, beach reconnaissance and clearance
- ♦ Final Exercise
- ♦ Disaster relief

ENTRY STANDARDS

- ♦ Cpl AE3 or AE3 candidate for promotion
- ♦ Preference given to students who have passed Junior Command Course (JCC)

QUALIFICATIONS

- ♦ CS31 Chainsaw (Small Trees)
- ♦ Royal Yachting Association Level 2 Power boat certificate
- ♦ City & Guilds, Intermediate Military Engineering

REMARKS

The course requires a high level of concentration, long working hours, and the ability to assimilate large amounts of information, as well as being physically demanding at times. A good level of instruction and leadership is also required. A high degree of motivation is essential.

**Reference No**

071/003

Duration

11 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

6

Frequency

One or 2 courses
per year

ASSAULT ENGINEER CLASS 1 (AE1)

**AIM OF COURSE**

To train AE2 corporals and sergeants as AE troop commanders, commanding officers' advisors, and demolition safety officers.

OUTLINE SYLLABUS

- ♦ Basic engineer tools and skills revision
- ♦ Site safety and management
- ♦ Chainsaw training
- ♦ Camp construction and structures, sanitation and concreting design
- ♦ Field defences siting, design, and planning
- ♦ Urban operations planning and defence design
- ♦ Water supply reconnaissance and management
- ♦ Boat handling
- ♦ Demolitions (to demolition safety officer)
- ♦ Mine warfare and booby traps
- ♦ Bridging reconnaissance and design
- ♦ Cliff assault
- ♦ Disaster relief
- ♦ Engineer resource management

**Reference No**

071/003

Duration

11 weeks

Location

Commando
Training Centre
Royal Marines

IELTS

6

Frequency

One or 2 courses
per year

ASSAULT ENGINEER CLASS 1 (AE1)

ENTRY STANDARDS

- ♦ Cpl AE2 or AE2 Candidate for promotion
- ♦ Preference given to students who have passed Senior Command Course (SCC)

QUALIFICATIONS

- ♦ CS32 Chainsaw (Medium Trees)
- ♦ Royal Yachting Association Level 2 Power boat certificate, VHF Radio Operator
- ♦ City & Guilds, Advanced Military Engineering

REMARKS

The course requires a high level of concentration, long working hours, and the ability to assimilate large amounts of information, as well as being physically demanding at times. A good level of instruction and leadership is also required. A high degree of motivation is essential.

WATERPROOFING TRAINING DRIVER BRANCH

Reference No

070/007

Duration

4 days

Location11 ATT Squadron,
Instow**IELTS**

6

Frequency2 courses
per year**AIM OF COURSE**

To enable Drivers to prepare waterproofed vehicles and equipment and carry out recovery tasks in the amphibious environment.

NOTE: Waterproofing is only taught on vehicles in service with the RM.

OUTLINES SYLLABUS

- ♦ Day 1 – Waterproofing requirements, theory and principles, practical ramp driver training in controlled “ deep water” environment (Dip Tank Training Facility)
- ♦ Day 2 – Practical instruction on waterproofed components followed by practical waterproofing vehicles
- ♦ Day 3 – Practical fording to and from and LCU on the beach, fording in 1.5 metres of water by day and dark-hours
- ♦ Day 3 – Practical Beach Recovery, and practical tests
- ♦ Day 4 – Stage C and D maintenance, practical de-waterproofing and post ford servicing followed by an end of course discussion

ENTRY STANDARDS

- ♦ MOD 1 and 2. Annotated onto MYDRIVE
- ♦ DVLA summary print off or equivalent
- ♦ Marshalling Trg within last 6 months
- ♦ Previously competed and passed user driver Trg
- ♦ Cat C plus E held

POST COURSE RECOMMENDATIONS

Drivers gain practical experience operating waterproofed vehicles and equipment before, during and after an amphibious exercise/operation.

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**Reference No**

070/002

Duration

5 days

Location11 ATT Squadron,
Instow**IELTS**

5.5

Frequency2 courses
per year

WATERPROOFING TRAINING VEHICLE MECHANIC

AIM OF COURSE

To enable vehicle mechanics to maintain waterproofed equipment and carry out recovery tasks in the amphibious environment.

NOTE: Waterproofing is only taught on vehicles in service with the RM.

OUTLINE SYLLABUS

- ♦ Day 1 – Waterproofing requirements; theory and principals; practical ramp driver training in controlled “deep water” environment (Dip Training Tank)
- ♦ Day 2 – Practical instruction on Waterproofed components followed by practical Waterproofing vehicles
- ♦ Day 3 – Practical fording to and from an LCU on the beach fording in 1.5 meters of water by day and dark-hours
- ♦ Day 3 – Practical de-waterproofing and post ford maintenance
- ♦ Day 4 – Stage C and D maintenance and Drowned Vehicle fault finding and diagnosis
- ♦ Day 5 – Practical Beach Recovery, examination, and end of course discussion

ENTRY STANDARDS

- ♦ Vehicle mechanic up to the rank of SNCO
- ♦ MOD 1 and 2. Annotated onto MYDRIVE
- ♦ DVLA summary print off or equivalent
- ♦ Marshalling Trg within last 6 months
- ♦ Previously competed and passed user driver Trg
- ♦ Cat C plus E held
- ♦ Completed and passed respective VT Cse

POST COURSE RECOMMENDATIONS

Vehicle mechanics gain practical experience maintaining waterproofed vehicles and equipment before, during and after an amphibious exercise/operation.

**Reference No**

070/005

Duration

10 days

Location11 ATT Squadron,
Instow**IELTS**

6

FrequencyOne course
per year

BEACH RECOVERY VEHICLE (BRV) DRIVER MAINTAINER COURSE

AIM OF THE COURSE

To enable the Amphibious Beach Unit Vehicle Mechanic to operate the Beach Recovery Vehicle (BRV) in the Amphibious role to include Landing Craft Utility (LCU)/Landing Craft Vehicle & Personnel (LCVP) vehicle recovery.

OUTLINE SYLLABUS

- ♦ Week 1: Beach Recovery Vehicle Familiarisation and amphibious operations
- ♦ Week 2: Amphibious Operations; Operating on surf beach working with a LCU, LCU Recovery, LCVP, Vehicle Recovery and Beach Recovery Vehicle, Recovery with Medium Wheel Tractor (MWT), Leo BARV – Compatible

ENTRY STANDARDS

- ♦ MOD 1 and 2 held and annotated on to MYDRIVE
- ♦ DVLA summary print off or equivalent
- ♦ Marshalling Trg within the last 6 months
- ♦ Conducted tracked vehicle Cse, Cat H and held on License
- ♦ Competed and passed Bulldog Operator and Commander cse

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**Reference No**

070/003

Duration

10 days

Location

47 Commando

IELTS

6

FrequencyOne course
per year

AMPHIBIOUS MEDIUM WHEEL TRACTOR (MWT) OPERATOR'S COURSE (JCB 436E HT WATERPROOFED WINTERIZED (WW))

**AIM OF COURSE**

To enable Amphibious Beach Unit personnel to operate and maintain the JCB 436e HT WW Class 30 trackway dispenser in the amphibious role.

OUTLINE SYLLABUS

- ♦ Week 1:
 - JCB 436e & HT WW
 - Class 30 trackway dispenser
 - 4:1 bucket
 - Winch operation
 - Operator maintenance
- ♦ Week 2:
 - Amphibious operation; operating in surf; beach engineering and recovery operations

ENTRY STANDARDS

- ♦ MOD 1 & 2. Annotated on to MY DRIVE
- ♦ DVLA summary print off or equivalent
- ♦ Marshalling Trg within last 6 months
- ♦ Cat C Plus E licence

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SECTION 4.3

ROYAL MARINES MUSIC



**Reference No**

079/005

Duration

45 weeks or less
depending on
start standard of
students

Location

The Royal
Marines School
of Music,
HMS NELSON

IELTS

6

Frequency

3 courses
per year

PUPIL INSTRUMENTAL (FOREIGN AND COMMONWEALTH)

AIM OF COURSE

To train student instrumentalists in all musical studies with emphasis on the basic techniques required to perform on their specific instruments, in accordance with instrumental categories.

OUTLINE SYLLABUS

- ◆ Elements of music
- ◆ Aural perception and memory
- ◆ Sight reading
- ◆ All major and minor scales and their arpeggios
- ◆ Chromatic scales
- ◆ All dominant and diminished arpeggios
- ◆ The performance of solos
- ◆ Works of varying difficulty to show style, technique and musicianship
- ◆ Sight-reading works of reasonable difficulty

ENTRY STANDARDS

Able to play an appropriate musical instrument to at least Grade III of the Associated Board of the Royal Schools of Music standard.

EXAMINATION / QUALIFICATIONS GAINED

Progress examinations at the end of each term (3 terms per year) and end of training.

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Reference No

079/001

Duration

12 weeks

Location

The Royal
Marines School
of Music,
HMS NELSON

IELTS

6

Frequency

One course
per year

MUSICIAN 1

AIM OF COURSE

To train and teach the student intermediate skills in conducting and rehearsal techniques, scoring and composition, supported with professionally relevant academic subjects in music.

OUTLINE SYLLABUS

- ♦ Conducting, score preparation and rehearsal techniques (directing professional relevant ensembles including wind band and ceremonial parade band)
- ♦ Elements of music (music theory)
- ♦ Harmony and compositional techniques. Harmony includes modulation, secondary seventh chords and jazz notation
- ♦ Composition, scoring and arranging (for professionally relevant ensembles)
- ♦ Aural perception, including melodic and rhythmic dictation, identification of music from different styles and periods
- ♦ Music history and analysis, covering music from the Middle Ages to the present day
- ♦ Broad understanding of all common instruments; including ranges, transposition, sound production, construction, repertoire, notable players and historical information
- ♦ Viva voce: oral discussion covering all aspects of the course and basic analysis of practical assessments

ENTRY STANDARDS

- ♦ Grade 5 ABRSM music theory
- ♦ Significant experience as an instrumental performer
- ♦ Desirable to have some conducting experience
- ♦ Acquaintance with music notation software, such as Sibelius
- ♦ General awareness of the 'RMBS Instrumental Handbook'

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Written and practical examinations take place near the end of the course
- ♦ There is a coursework assignment: students submit an arrangement or composition
- ♦ ABRSM grade 6 music theory

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Reference No

079/004

Duration

50 weeks (45 weeks of tuition and 5 weeks of leave)

Location

The Royal Marines School of Music, HMS NELSON

IELTS

6

Frequency

One course per year

BANDMASTER (W02)



AIM OF COURSE

To train and teach the student advanced skills in conducting and rehearsal techniques, scoring, arranging and composition, supported with professionally relevant academic subjects in music.

OUTLINE SYLLABUS

- ♦ Advanced conducting, score preparation and rehearsal techniques (directing professionally relevant ensembles including wind band and ceremonial parade band)
- ♦ Advanced stylistic and free composition, scoring and arranging (for professionally relevant ensembles)
- ♦ Advanced elements of music (music theory)
- ♦ Harmony and compositional techniques. Harmony includes complex modulations and highly chromatic harmony
- ♦ Advanced aural perception, including harmonic dictation, detailed discussion of music from different styles and periods
- ♦ Detailed study of music history, analysis and performance practice, covering music from the Middle Ages to the present day with set works
- ♦ Viva voce: oral discussion covering all aspects of the course. Students are expected to show detailed knowledge of the course content together with advanced skills in critical analysis and policy matters

**Reference No**

079/004

Duration

50 weeks (45
weeks of tuition
and 5 weeks of
leave)

Location

The Royal
Marines School
of Music,
HMS NELSON

IELTS

6

Frequency

One course
per year

BANDMASTER (W02)

ENTRY STANDARDS

- ♦ Successful completion of the Royal Marines Band Service M1 Course
- ♦ Confirmation from Higher Training, RMsOM that the student has the ability to meet the requirements of the Bandmaster Course
- ♦ Working dress and dress uniform

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Internal examinations:
 - Periodic/Termly examinations
 - Assessed regular coursework assignments
- ♦ External examinations:
 - ABRSM grade 8 music theory
 - ARSM in wind band direction, LRSM in wind band direction



Reference No

079/003

Duration

12 weeks

Location

The Royal
Marines School
of Music,
HMS NELSON

IELTS

6

Frequency

When required*

BUGLER 1



AIM OF COURSE

To further the knowledge of a Corporal Bugler in music theory and aural perception.

To develop sight reading and performance skills on the Military Side Drum (MSD), Bb Bugle and Eb Natural Trumpet.

To develop instructional ability in both classroom and Corps of Drums environments.

To develop leadership and management skills within a Corps of Drums context

OUTLINE SYLLABUS

- ♦ Course project
- ♦ Written assignments
- ♦ Music theory
- ♦ Aural perception
- ♦ Performance skills
- ♦ Leadership & Management skills:
 - Technique of instruction
 - Corps of Drums administration
 - Corps of Drums drill

**Reference No**

079/003

Duration

12 weeks

Location

The Royal
Marines School
of Music,
HMS NELSON

IELTS

6

Frequency

When required*

BUGLER 1

ENTRY STANDARDS

- ♦ To be of above average ability on either MSD or Bugle/Trumpet; average ability on other instrument(s)
- ♦ To have a sound knowledge of music history and theory (grade 5 ABRSM standard or above)
- ♦ To have good sight reading and aural perception skills
- ♦ To have demonstrated leadership potential

REMARKS

*Courses are delivered yearly, depending upon requirement.



Reference No

079/002

Duration

4 weeks

Location

The Royal
Marines School
of Music, HMS
NELSON*

IELTS

6

Frequency

When required

DRUM MAJOR



AIM OF COURSE

To train NCOs to carry out the duties of a Military Band Drum Major.

OUTLINE SYLLABUS

- ♦ Ability to command a playing band in executing ceremonial movements on parade
- ♦ Exact knowledge of Royal Marines Drum Major's drills and signals
- ♦ Exact knowledge of office routines, including JPA and other Company Sergeant Major responsibilities

ENTRY STANDARDS

- ♦ Have a good knowledge of music
- ♦ Have high standards of deportment and bearing
- ♦ Be selected for promotion (Corporal or above)

REMARKS

Students must provide their own Drum Major staff and best ceremonial uniform.

N.B. * The exact location of the course will be dependent on RMBS Commitments and classroom availability.

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Reference No

079/015

Duration

15 weeks

Location

The Royal
Marines School
of Music, HMS
NELSON

IELTS

6

Frequency

One course
per year

POST BANDMASTERS BMUS (HONS) COURSE

AIM OF COURSE

To teach the student advanced skills (post-Bandmasters' Course) in conducting and rehearsal, as well as techniques in scoring, arranging and composition, supported with professionally relevant academic subjects in music, in order to gain a degree in music.

OUTLINE SYLLABUS

- ♦ Advanced conducting, score preparation and rehearsal techniques (based on professionally relevant ensembles)
- ♦ Advanced composition, scoring and arranging (based on professionally relevant ensembles)
- ♦ Harmony and compositional techniques, including advanced techniques in order to support the student's progress in composition/arranging
- ♦ Detailed study of music history, analysis and performance practice, relevant to the music which the student is conducting/composing/arranging
- ♦ Viva voce: oral discussion covering all aspects of the course. Students are expected to show detailed knowledge of the course content together advanced skills in critical analysis
- ♦ Written self-reflection on feedback received during the Bandmasters' course and ideas for future development

ENTRY STANDARDS

- ♦ Successful completion of the Royal Marines Bandmasters' Course
- ♦ Confirmation from Higher Training, RMSoM that the student has the ability to meet the requirements of the Bandmasters' Post Degree Course programme
- ♦ Confirmation from the University of Lincoln that the student's advanced standing is accepted
- ♦ Working dress and dress uniform

EXAMINATIONS/QUALIFICATIONS GAINED

External examinations:

- ♦ Bachelor of Music (Honours) degree
- ♦ There is also the opportunity to prepare for external diplomas, such as the FRSM

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SECTION 5 AVIATION



This section shows the Helicopter Underwater Escape Training (HUET – known as the dunker) and Helicopter Control courses delivered at Royal Naval Air Station Yeovilton, and Flight Deck Operations courses delivered at Royal Naval Air Station Culdrose, available to international navies and maritime organisations.

**Reference No**

201/080

Duration

2 days

Location

RNAS CULDROSE

IELTS

5.5

Frequency15 courses
per year

FIREFIGHTING AND HELICOPTER OPERATING (AIR 233)

**AIM OF COURSE**

To train senior and junior ratings in all aspects of flight deck operations, aircraft fire fighting and aircraft crash rescue.

OUTLINE SYLLABUS

- ♦ Specialised aircraft fire fighting equipment, as applicable to class of ship (revision)
- ♦ Flight deck and fire fighting arrangements
- ♦ Flight deck and general fire prevention precautions
- ♦ Fire fighting protective clothing, care and maintenance
- ♦ Rescue procedures, emergency break-in points, door jettison, fire access panels, marking, release of aircrew
- ♦ Fire hazards associated with Aircraft Armament
- ♦ Practical fire fighting and simulated rescue, using all flight deck fire fighting equipment
- ♦ Helicopter danger areas. Dress on the flight deck. Safety precautions on the flight deck, Foreign Object Damage and prevention
- ♦ General awareness when working with aircraft, importance of individual flight safety contributions
- ♦ Practical flight deck operations, acting as flight deck member. Practical lashing drills
- ♦ Helicopter Inflight Refuelling (HIFR) procedure/Vertical Replenishment (VERTREP) procedures

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**Reference No**

202/015

Duration

Half a day

Location

RNCMSUET

RNAS

YEOVILTON

IELTS

5.5

RANK

All

Frequency5 courses
per week

UNDERWATER ESCAPE TRAINING (UET) 1 BASIC DUNKER

**AIM OF COURSE**

To teach the principals of HUET and give confidence to aircrew and regular passengers in their ability to escape from a ditched helicopter.

OUTLINE SYLLABUS**Theory**

Classroom presentation describing hazards associated with Helicopter underwater escape and the recommended drills and procedures to achieve safe egress.

Practical

4 runs in HUET module:

- ♦ Run 1 – Breath hold escape from submerged upright helicopter
- ♦ Run 2 – Breath hold escape from submerged inverted helicopter
- ♦ Run 3 – Breath hold escape from submerged inverted helicopter (twilight conditions)
- ♦ Run 4 – Breath hold escape from submerged inverted helicopter (night conditions)

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**Reference No**

202/041

Duration

Half a day

Location

RNCMSUET

IELTS

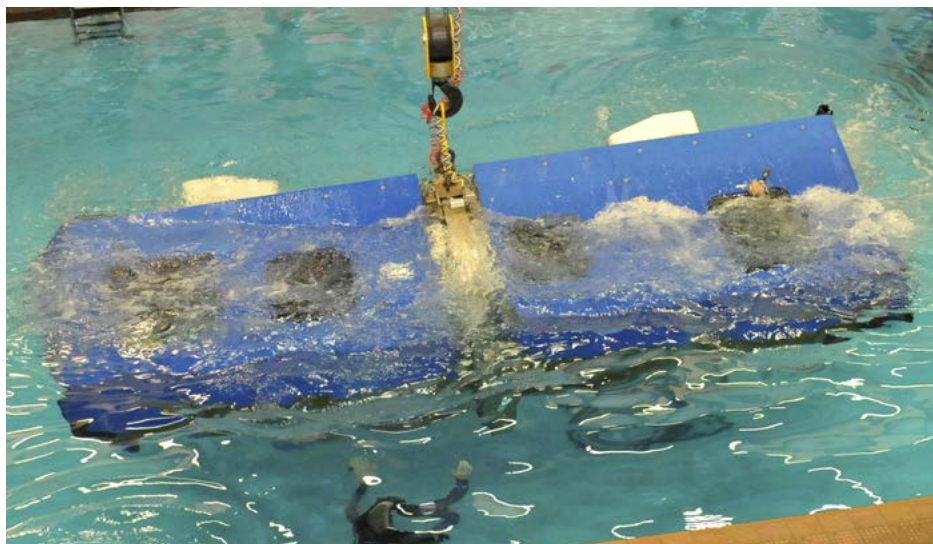
5.5

RANK

All

Frequency5 courses
per week

COMPRESSED AIR EMERGENCY BREATHING SYSTEM (CA-EBS) AIRCREW (UET-2)

**AIM OF COURSE**

To teach the principles and use of self-contained underwater breathing apparatus to aid escape from a ditched helicopter.

OUTLINE SYLLABUS**Theory**

- ♦ Classroom presentation describing hazards associated with Helicopter underwater escape and the recommended drills & procedures to achieve safe egress
- ♦ Before and After Flight inspections on the CA-EBS
- ♦ Operation of the CA-EBS and controlled underwater breathing techniques

Practical

Shallow water training for familiarization of CA-EBS 6 runs in HUET Module:

- ♦ Run 1 – Breath hold escape from submerged upright helicopter
- ♦ Run 2 – Breath hold escape from submerged inverted helicopter
- ♦ Run 3 – Breath hold escape from submerged inverted helicopter (twilight conditions)
- ♦ Run 4 – Breath hold escape from submerged inverted helicopter (night conditions)
- ♦ Run 5 – CA-EBS assisted escape from submerged upright helicopter
- ♦ Run 6 – CA-EBS assisted escape from submerged capsized helicopter

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**Reference No**

201/077

Duration

2 weeks

Location

RNAS CULDROSE

IELTS

6

Frequency10 courses
per year

FLIGHT DECK OFFICER (AIR 230)

**AIM OF COURSE**

To train officers and senior ratings as Flight Deck Officers in single spot helicopter operating ships.

OUTLINE SYLLABUS

Classroom and practical training covering:

- ♦ Flight Deck Officer Responsibilities
- ♦ Helicopter operations
- ♦ Flight deck safety and aircraft hazards
- ♦ Preparations for flying
- ♦ Aircraft Marshalling Signals
- ♦ Wind limitations
- ♦ Insight into ground handling of aircraft on flight decks only
- ♦ Vertical Replenishment (VERTREP) and helicopter transfer routines
- ♦ Communications – theory and practice
- ♦ Aircraft Alert States
- ♦ Helicopter In-Flight Refuelling
- ♦ Helicopter Rotor Running Refuelling
- ♦ Flight safety
- ♦ Air weapons

**Reference No**

201/077

Duration

2 weeks

Location

RNAS CULDROSE

IELTS

6

Frequency10 courses
per year

FLIGHT DECK OFFICER (AIR 230)

- ♦ Flight deck surfaces and markings
- ♦ Decontamination of aircraft
- ♦ Marshalling practice
- ♦ Fire fighting
- ♦ Publications

ENTRY STANDARDS

- ♦ Candidates need to be able to operate a high-speed radio circuit in English fluently
- ♦ Minimum eyesight standard required is VA3/CP3

EXAMINATIONS/QUALIFICATIONS GAINED

A pass gains probationary FDO status.

POST COURSE COMPULSORY REQUIREMENTS

Flight Safety Course (AIR 302).

**Reference No**

202/059

Duration

5 weeks

Location

RNAS
YEOVILTON

IELTS

7

Frequency

As required

HELICOPTER CONTROL (NON-TACTICAL) MODULE (AIR 202A)

AIM OF COURSE

To train officers and ratings of the Warfare specialisations in the non-tactical control of helicopters.

OUTLINE SYLLABUS

Classroom and simulator training covering:

- ♦ RN and NATO Helicopters
- ♦ Control rules and Techniques
- ♦ Duties and Responsibilities of the AC
- ♦ Joining and Handover procedures
- ♦ Flying briefs
- ♦ Launch and Recovery procedures
- ♦ Control emergencies
- ♦ Helicopter emergencies
- ♦ IFF
- ♦ Search and Rescue
- ♦ Altimetry
- ♦ Meteorology
- ♦ Emission control
- ♦ Airspace reservations and NOTAMs
- ♦ Flight publications, Maps and Charts

ENTRY STANDARDS

Candidates need to be able to operate a high speed radio circuit in English fluently.

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Practical exercises and progress tests run throughout the course
- ♦ NATO Countries – Awarded HC(NT) (U) qualification
- ♦ Non-NATO Countries – Trained and examined to the same standard as NATO countries, but not formally awarded qualification

POST COURSE RECOMMENDATIONS

NATO Countries – Ten hours live control experience then examination to become a fully qualified HC (NT).

Non-NATO Countries – Ten hours live control experience then examined to the same standard of a NATO fully qualified HC (NT).

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SECTION 6

HYDROGRAPHY, METEOROLOGY & OCEANOGRAPHY



This section shows the courses available to Officers and Ratings of international navies and maritime organisations in Hydrography, Meteorology and Oceanography based at Warfare Training Group Hydrography and Meteorology Training Unit (WTG HMTU) school at Devonport.

**Reference No**

011/01

Duration

20 weeks

Location

HMS DRAKE

IELTS

6.5

Frequency2 courses per
year

HYDROGRAPHY METEOROLOGY (HYDROGRAPHIC)

AIM OF COURSE

To train junior officers to be competent in planning and carrying out field work and be able, under supervision, to undertake small detached hydrographic surveys ashore and afloat.

OUTLINE SYLLABUS

- ♦ Introduction to mathematics used in surveying and trigonometry, matrices, calculus, and error theory
- ♦ General theory of establishing horizontal positional control including theory on geodesy, projections and grids
- ♦ General theory of establishing vertical positional control including theory on vertical datums, tidal forces and tidal streams
- ♦ Theory and practical use of a range of survey equipment including theodolites, electro-optical distance measuring systems and global navigation satellite systems
- ♦ Theory and practical use of single and multi-beam echo sounders and towed sonar systems
- ♦ Theory and practical planning and running of hydrographic surveys

ENTRY STANDARDS

UK GCSE mathematics (Min grade C/4) or recognised equivalent.

EXAMINATIONS / QUALIFICATIONS GAINED

- ♦ Comprehensive set a written exams, assignments and presentations
- ♦ Assessed practical survey project, including beach reconnaissance exercise
- ♦ Recognised by FIG/IHO Advisory Board as meeting the standards for a category B course

REMARKS

Senior ratings and non-commission officers meeting the minimum entry standards and with prior hydrographic survey experience may be accepted onto the course with agreement of the lead instructor.

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**Reference No**

011/002

Duration

20 weeks

Location

HMS DRAKE

IELTS

6.5

Frequency3 courses every
2 years**Student Max
Capacity**

9 full time

HYDROGRAPHIC METEOROLOGY ADVANCED SURVEY (HM103)

**AIM OF COURSE**

The aim of the Hydrography & Meteorology Advanced Survey (HMAS) course is to provide students with comprehensive and broad-based knowledge in all aspects of the theory and practice of hydrography and allied disciplines.

By the end of course students will be expected to be able to demonstrate sound analytical reasoning and decision-making skills, as well as develop solutions to non-routine problems.

The HMAS course is designed to produce a hydrographer who can meet the following five Training Performance Standards:

- ♦ Conduct hydrographic surveys in support of nautical charting and military operations
- ♦ Plan hydrographic surveys
- ♦ Analyse hydrographic survey data
- ♦ Present hydrographic survey products
- ♦ Maintain hydrographic survey standards

**Reference No**

011/002

Duration

22 weeks

Location

HMS DRAKE

IELTS

6.5

Frequency3 courses every
2 years**Student Max
Capacity**

9 full time

HYDROGRAPHIC METEOROLOGY ADVANCED SURVEY (HM103)

OUTLINE SYLLABUS

The course runs over 20 weeks and will cover the following areas:

- ♦ A study of advanced mathematics used in surveying including spherical trigonometry, matrices, calculus and error theory
- ♦ Theory of establishing horizontal positional control including theory on geodesy, projections and grids
- ♦ Theory of establishing vertical positional control including theory on vertical datums, tidal forces and tidal streams
- ♦ Theory and practical use of a range of survey equipment including theodolites, electro-optical distance measuring systems and Global Navigation Satellite Systems
- ♦ Theory and practical use of single and multi-beam echo sounders and towed sonar systems.
- ♦ Theory and practical analysis of positional and bathymetric data
- ♦ Practical introduction to Geospatial Information Systems – delivered by Defence School of Geospatial Intelligence.
- ♦ An introduction to International Law of the Sea
- ♦ Theory of alternate methods of data collection and an introduction to specialist hydrographic surveys
- ♦ Theory and practical planning and running of hydrographic surveys.

ENTRY STANDARDS

Students must have completed an FIG/IHO recognised Category B course and consolidated this training with a minimum of 2 years' practical surveying experience in a sea-going or similar hydrographic unit.

EXAMINATIONS / QUALIFICATIONS GAINED

- ♦ Comprehensive set of written examinations, assignments and presentations
- ♦ Assessed practical survey project, including beach reconnaissance exercise

REMARKS

HM Training Unit is an academic partner of Plymouth University and, where eligible, students are enrolled on a Post-Graduate Diploma programme in Hydrographic Surveying at the beginning of the course.

**Reference No**

054/086

Duration

5 weeks

LocationFOST-HM: HMS
COLLINGWOOD**IELTS**

6.5

FrequencyOne course
per year

SPECIALIST TEE

AIM OF COURSE

To enable NATO students to become specialists in the Tactical Exploitation of the Environment (TEE).

OUTLINE SYLLABUS

The course has two phases:

- ♦ Phase 1: Three weeks classroom instruction dealing with TEE in Above Water (AW), Underwater (UW) and littoral environments, based in FOST-HM, HMS COLLINGWOOD
- ♦ Phase 2: Two weeks practical phase, putting into practice skills taught in Phase one, based in FOST-HM, HMS COLLINGWOOD

RELATED COURSES

HM Common Course.

ENTRY STANDARDS

- ♦ NATO membership
- ♦ Academic standard to be equivalent of 5 GCSEs, including Mathematics and English and 2 "A" Levels
- ♦ Meteorology and Oceanography training to be equivalent of UK Post Graduate Certificate in Applied Meteorology and Oceanography

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**Reference No**

011/017

Duration

21 weeks

Location

HMS DRAKE

IELTS

6.5

FrequencyTwo courses
per year

AERONAUTICAL METEOROLOGICAL FORECASTERS (HM300) COURSE

AIM OF COURSE

To train officers and senior rates (OF6 and above) to carry out meteorological and oceanographic forecasting duties. The training includes rotary and fixed wing aviation forecasting, and early tactical exploration of atmospheric and oceanographic information.

OUTLINE SYLLABUS

- ♦ Basic Meteorological Theory including Energy Balance, Air Masses, Stability and General Circulation. Advanced Meteorological Theory including Upper Air, Dynamics and Thermodynamics
- ♦ Meteorological codes and encoding of weather observations in use at sea.
- ♦ Significant hands-on experience with most up to date meteorological forecasting software in use by UK Meteorological Office (Visual Weather, provided by IBL)
- ♦ Oceanography module covering physical oceanography and acoustics theory with practical sessions to consolidate knowledge
- ♦ Global Meteorological Theory for the Mediterranean, Middle East, Polar and Tropical regions
- ♦ Basic tactical theory sessions for infrared systems, night vision and radar propagation. Including hands on experience with software used to forecast the environmental effects on those systems
- ♦ Theory and practical use of recognised forecasting processes for both North Atlantic area and relevant Global regions, to standards required by the UK Military Aviation Authority
- ♦ Visits to several sites that provide or process Meteorological and/or Oceanographic data for military uses (this may include RN Typed Air Station Met Office, UK Meteorological Office, Joint Operational Meteorological and Oceanographic Centre, National Oceanography Centre and the UK Hydrographic Office)

ENTRY STANDARDS

HM (METOC) course is an intense and rewarding in depth meteorological and oceanographic forecasting course. The entry requirement is set at graduates who hold a BSc in a science subject (or exceptionally another topic). The array of complex terminology used demands a significant competence at both written and spoken English.

**Reference No**

011/017

Duration

21 weeks

Location

HMS DRAKE

IELTS

6.5

FrequencyTwo courses
per year

AERONAUTICAL METEOROLOGICAL FORECASTERS (HM300) COURSE

EXAMINATIONS / QUALIFICATIONS GAINED

- ♦ Comprehensive set of written examinations (Basic, Oceanographic and Advanced/Global theory) and a Climate Brief for a tactically relevant area including a verbal presentation of this data
- ♦ Practical assessments during meteorological forecasting scenarios
- ♦ Plymouth University module credits, where eligible, towards BSc or PG Cert qualification
- ♦ This is a course meeting the International Meteorological Organisation standards for a Basic Instructional Package for Meteorology, approved by the Royal Meteorological Society (RMetS) and offers a route to become a Registered Meteorologist (RMet)



SECTION 7

MARINE

ENGINEERING



TRADE TRAINING

This section shows the Marine Engineering Trade Training courses held at HMS Sultan available to international navies and maritime organisations.

SHIPS' SYSTEMS

This section shows the Ship's Systems courses held at HMS Sultan available to international navies and maritime organisations.

**Reference No**

048/230

Duration

34 weeks

(28 weeks

excluding ISSC,
CBRNDC5, DOC,
NMT 101, JOLC)**Location**

HMS SULTAN

IELTS

6.5

Frequency2 courses per
year

(Sep and Jan)

SYSTEMS ENGINEERING & MANAGEMENT COURSE (MARINE ENGINEERING) (SEMC(ME))

**AIM OF COURSE**

To provide Graduate Officers with a knowledge of the principals of the design, construction, operation and maintenance of Marine Engineering equipment and systems such that they can undertake the duties of the Deputy Marine Engineering Officer in a small ship or Section Officer in a large ship.

OUTLINE SYLLABUS

- ♦ Construction, maintenance and operations of equipments and associated systems, including:
 - Gas turbines, diesels, transmissions, electrical propulsion systems, ship electrical systems, steering & stabilisers, AC generation & distribution, converted supplies, controls, refrigeration & air conditioning, hydraulics, desalination, compressed air and hull systems
- ♦ Craft/Workshop skills appreciation:
 - Fitting & turning
 - Sheet metalwork
 - Pipework
 - Welding & cutting
 - Composites and woodwork
 - Stability, docking/undocking, condition based monitoring, NDE/NDT, nuclear propulsion, signature reduction, engineering administration, ship husbandry and MARPOL
 - Practical switchboard operation and ship duty watch exercises
 - ISSC, Divisional Officers Course, NMT101, CBRNDC5, JOLC

**Reference No**

048/230

Duration

34 weeks

(28 weeks
excluding ISSC,
CBRNDC5, DOC,
NMT 101, JOLC)

Location

HMS SULTAN

IELTS

6.5

Frequency

2 courses per
year
(Sep and Jan)

SYSTEMS ENGINEERING & MANAGEMENT COURSE (MARINE ENGINEERING) (SEMC(ME))

ENTRY STANDARDS

- ♦ Degree in Engineering
- ♦ To be computer literate in Microsoft Word and Excel, or equivalent
- ♦ Minimum of 6 months general sea experience is preferable
- ♦ Minimum of 6 weeks practical experience with service equipment (Marine Engineering) is preferable

EXAMS/QUALIFICATIONS GAINED

Formal assessments are conducted throughout the course.

REMARKS

Proof of educational qualifications will be required on joining. In order to take this course, students must be medically fit and pass the Royal Navy Fitness Test.

This course includes external visits which involve travelling expenses.

**Reference No**

048/514

Duration

2 weeks 2 days

Location

HMS SULTAN

IELTS

5.5

Frequency3 courses
per year

POET (ME) POWER PLATFORM/EQUIPMENT SPECIFIC (ME285E)

AIM OF COURSE

To provide the senior rating with the specialist ship and equipment skills and knowledge to act as Power Section Head and specialist maintainer.

OUTLINE SYLLABUS

- ♦ Gas turbines – Spey
- ♦ Gas turbines – Spey Fuel System Controller Transmission
- ♦ Machinery control and surveillance D86
- ♦ Steering gear and stabiliser controls

ENTRY STANDARDS

- ♦ Completed POET(ME) QC or equivalent; qualified technician
- ♦ Rank OR7

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**Reference No**

See table

Duration

See table

Location

HMS SULTAN

IELTS

5.5

MISCELLANEOUS MARINE ENGINEERING COURSES

COURSE INFORMATION

HMS SULTAN offers a range of Marine Engineering training courses not covered separately in this catalogue. These courses range from craft skills to equipment specific and from introductory to advanced maintainer level.

Examples of courses on offer are as follows:

IDT Code	Course Type	Duration	Applicability
048/539	ME293 LET (MEGS) QC Fitting and Machining	58 days	ME SR OR4-6
048/540	ME294 LET (MEGS) QC Welding and Brazing	50 days	ME SR OR4-6
048/047	ME422 – HVME Maintainer	3 days	ME SR OR4-6
048/385	ME423 – HVME Operator	2 days	Officers & SR OR4 and above

Full details of these courses can be obtained from IDT(RN)

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**Reference No**

See table

Duration

See table

Location

HMS SULTAN

IELTS

5.5

Frequency3 courses
per year

SHIP'S SYSTEMS AND OPERATIONAL TRAINING

**AIM OF COURSE**

To familiarise the individual with operation of main propulsion, auxiliary and electrical, machinery and systems, fitted in specific classes of ship using simulator.

Training is available for the following classes of ship:

IDT Code	Ship Type	Course	Duration	Applicability
048/441	T23	ME63	2 weeks	ME0/ME W0 OF2-3/OR8-9
048/451	T23	ME63A	2 weeks	ME SR & LH OR4-6
048/529	HUNT	ME429A	5 weeks	ME0/DME0 OR7-9
048/530	HUNT	ME429B	3 weeks	ME PO & LH OR4-6
048/531	HUNT	ME429F	2 weeks	ME JR OF2-4
048/483	SRMH	ME430F	7 days	ME JR OR2-4

Full details of these courses can be obtained from IDT(RN).

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**Reference No**

048/360

Duration

4 weeks

Location

HMS SULTAN

IELTS

6.5

Frequency

On request

ME109 ADVANCED STABILITY & HULL SURVEY

AIM OF COURSE

The course is designed to give Marine Engineer officers:

- ♦ A deep understanding of stability so as to enable them to assess its effect on ships in operations and practical situations. This prepares the student for roles such as docking officer, or seagoing officer responsible for ballast control systems
- ♦ The knowledge to carry out informed inspections of a ship structure, advise on likely causes of damage, and provide repair solutions to defects

OUTLINE SYLLABUS

On completion of the course, the student will have completed the following modules:

- ♦ Ship stability – including docking, grounding, salvage and operational considerations
- ♦ Docking – including visit
- ♦ Hull – including updates on Health and Safety, confined space regulations and MARPOL
- ♦ Structures – looking at materials, forces, surveying and standards
- ♦ Practical survey experience
- ♦ Commercial ship construction and classification issues

ENTRY STANDARDS

- ♦ HND level engineering or equivalent
- ♦ OF2-3

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**Reference No**

048/260

Duration

5 days

Location

HMS SULTAN

IELTS

5.5

Frequency4 courses
per year

ME426 BULK FLUID MANAGEMENT AND QUALITY CONTROL

AIM OF COURSE

To train senior ratings to manage the bulk storage, quality control, distribution and replenishment of fuel and water within the ship.

OUTLINE SYLLABUS

On completion of the course, the rating will be capable of the following:

- ♦ Observe the necessary precautions when handling AvFuels
- ♦ Maintain AvFuel quality
- ♦ Observe the necessary precautions when handling dieso
- ♦ Maintain dieso quality
- ♦ Maintain fresh water quality
- ♦ Operating, maintaining and repairing centrifuges
- ♦ Advise MEO/ Command on stability

ENTRY STANDARDS

OR 6-7

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**Reference No**

As stated

Duration

As stated

Location

HMS SULTAN

IELTS

5.5

Frequency

On request

HIGH VOLTAGE TRAINING

HMS SULTAN offers 3 levels of High Voltage training, focussed on RN and RFA safe systems of work. Trainees completing these courses must be approved and endorsed by an Authorising Engineer in their workplace. The courses are:

048/520: HV AUTHORISED PERSON (ME466). 5 DAYS. RANK OR6 AND ABOVE**AIM OF COURSE**

- ♦ To train officers/senior ratings to act as the Authorised Person in relation to HV equipment matters.
- ♦ On completion of the course, individuals will be able to supervise/work on HV systems using the correct administration routines.

048/521: HV COMPETENT PERSON (ME466A). 2 DAYS. ALL RANKS/ GRADES**AIM OF COURSE**

- ♦ To train officers/senior ratings to act as the Competent Person in relation to HV equipment matters.
- ♦ On completion of the course, individuals will be able to work on HV systems using the correct administration routines.

048/493: HV AUTHORISED ENGINEER (ME466C). 1 DAYS ON TOP OF HV AP COURSE. RANK OR2**PRE-REQUISITE**

Attendees must hold an HV Approved Person qualification.

AIM OF COURSE

- ♦ To train officers in the additional legislature applicable to the role of HV Approved Engineer.
- ♦ On completion of the course, individuals will be capable of fulfilling the role of HV Approved Engineer.

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**Reference No**

048/516

Duration

5 days

Location

HMS SULTAN

IELTS

5.5

Frequency

On request

SHIP MACHINERY PLANT OPERATION – TEAM TRAINING

AIM OF COURSE

To enable officers and ratings rating to maintain the skills required to operate the specific classes of ship.

OUTLINE SYLLABUS

On completion of the course, individuals will be capable of carrying out the correct machinery operating and breakdown procedures, under simulated conditions
Team training is available for the following classes of ship:

- ♦ Hunt Class MCMV (ME4291) (Max 3 Days)
- ♦ SRMH (ME4301) (Max 3 Days)

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**Reference No**

048/323

Duration

4 days

Location

HMS SULTAN

IELTS

5.5

Frequency

On request

ME415 OUTBOARD MOTOR MAINTAINER

AIM OF COURSE

To enable ratings up to CPO and equivalent to operate and carry out onboard maintenance and defect rectification on outboard motors.

OUTLINE SYLLABUS

- ♦ Testing and tuning
- ♦ Fault diagnosis
- ♦ Engine repairs using onboard spares kit
- ♦ Operation of Mariner 9.9, 20, 40, 60 and 75 hp

ENTRY STANDARDS

Rank OR2-7

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Reference No

Duration

3 Weeks 2 days

Location

HMS SULTAN

IELTS

5.5

Frequency

3 courses per
year

POET (MEGS) POWER AND PROPULSION QUALIFYING COURSE (ME153A)



AIM OF COURSE

To provide the necessary training to enable the POET to undertake training as a POET Power and Propulsion section head.

OUTLINE SYLLABUS

- ♦ Gas Turbines
- ♦ Diesel Engines
- ♦ Marine Engineering Diagnostic Training
- ♦ Transmissions
- ♦ Bulk Fluid Management
- ♦ Naval General Duties

ENTRY STANDARDS

POET(MEGS) (OR6) on successful completion of ME153 and selection for POET(MEGS) Power and Propulsion Training.

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Reference No

Duration

12 Weeks

Location

HMS SULTAN

IELTS

5.5

Frequency

3 courses per
year

POET (MEGS) CONTROLS AND DISTRIBUTION QUALIFYING COURSE (ME153B)

AIM OF COURSE

To provide the necessary training to enable the POET to undertake training as a POET Control & Distribution section head.

OUTLINE SYLLABUS

- ♦ Advanced Electronics
- ♦ Power Electronics
- ♦ Static Frequency Changers
- ♦ Digital Electronics
- ♦ Automated Systems
- ♦ FieldBus and Process Control Instrumentation
- ♦ Tyco T2000 FSFD System
- ♦ Hull Vibration Monitoring Equipment Operator/Maintainer
- ♦ Naval General Duties

ENTRY STANDARDS

POET(MEGS) (OR6) on successful completion of ME153 and selection for POET(MEGS) Control & Distribution Training.

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Reference No

Duration

9 Weeks 4 days

Location

HMS SULTAN

IELTS

5.5

Frequency

3 courses per
year

POET (MEGS) SHIPS SERVICES QUALIFYING COURSE (ME153C)

AIM OF COURSE

To provide the necessary training to enable the POET to undertake training as a POET Ships Services section head.

OUTLINE SYLLABUS

- ♦ Bulk Fluid Management
- ♦ Impressed Current cathodic Protection
- ♦ Refrigeration, Air Conditioning and Brazing
- ♦ Ships Technology
- ♦ Naval General Duties

ENTRY STANDARDS

POET(MEGS) (OR6) on successful completion of ME153 and selection for POET(MEGS) Ships Services Training.

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SECTION 8

WEAPON

ENGINEERING



This section shows Systems Engineering and Management Course (Weapon Engineering) SEMC(WE) and other Weapon Engineering courses held at HMS Collingwood available to international navies and maritime organisations.

**Reference No**

003/431

Duration

13 weeks

IELTS

6.5

LocationHMS
COLLINGWOOD**Frequency**3 courses
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (WEAPON ENGINEERING) SEMC(WE)-PHASE 1

Engineering Principles

AIM OF COURSE

To prepare WE officers for their first sea job through the study of engineering principles and their application to weapon systems.

OUTLINE SYLLABUS

- ♦ Weapon Engineering System Fundamentals
- ♦ Data Communications
- ♦ Combat Management Systems
- ♦ Radar – supported with laboratory lessons
- ♦ Sonar – supported with laboratory lessons
- ♦ Radio Communications –supported with laboratory lessons
- ♦ Electronic Warfare
- ♦ Electro Optics
- ♦ Above Water and Underwater Weapons
- ♦ Applied Control including Hydraulics and Pneumatics
- ♦ Group technical project resulting in a written submission and presentation

ENTRY STANDARDS

- ♦ Degree or equivalent in electrical/electronic Engineering approved by MOD(N)
- ♦ Minimum 6 weeks practical experience with weapon equipment

POST COURSE RECOMMENDATIONS

Postgraduate studies if student achieves a good overall result on course.

REMARKS

Proof of educational qualifications will be required on joining. In order to take this course, students must be medically fit and able to pass the Royal Navy Fitness Test. This is a course aimed at students who have recently finished their basic military training and is aimed at providing the fundamental theory and knowledge to be an engineering manager at sea (OF2 or equivalent rank).

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**Reference No**

003/432

Duration

11 weeks

IELTS

6.5

LocationHMS
COLLINGWOOD**Frequency**3 courses
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (WEAPON ENGINEERING)- SEMC(WE)-PHASE 2

Management and Administration

AIM OF COURSE

To provide the professional training to enable a Graduate Weapon Engineer Officer to carry out his/her first sea appointment as a Deputy or Section Weapon Engineer Officer and to provide sufficient basic technical knowledge for him/her to carry out most subsequent appointments as a Lieutenant without further specialist training.

OUTLINE SYLLABUS

- ♦ Instruction
 - WE Department Management
 - Operational Capability and Defect Management
 - Engineering Administration
 - Signature Reduction
 - Management of department training
 - Logistics
 - Explosives safety
 - Weapon Repair Organisation
 - Risk management
 - Support organisations
 - Management of Weapons
 - Department security
 - 1 weeks adventurous training that may require DIPCLEAR for AT in Germany and Austria
- ♦ Course work
 - Service and technical writing
 - Formal oral presentations
 - WE administration case study exercises
 - 4 day real time simulated working exercise
 - End of course exam

RELATED COURSES

SEMC(WE) Phase 2 is complimented by platform bespoke equipment courses and pre-joining training (PJT). SEMC(WE) Phase 2 is designed to deliver the general management skills common across all platforms.

ENTRY STANDARDS

To have successfully completed SEMC(WE) Phase 1.

**Reference No**

003/432

Duration

11 weeks

IELTS

6.5

LocationHMS
COLLINGWOOD**Frequency**3 courses
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (WEAPON ENGINEERING)- SEMC(WE)-PHASE 2

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ End of course exam and successfully completing SEMC(WE) Phase 2
- ♦ Ship Hazard (ShipHaz) competent person (course code: WE E114)
- ♦ Communication/Information Systems Manager

REMARKS

Some modules have security classifications and therefore have restricted attendance. This is a course aimed at students as preparation for their first compliment role in the Royal Navy and aims to provide the basic overarching management and planning skills to be an engineering manager at sea (OF2 or equivalent rank).

**Reference No**

003/502

Duration

14 weeks

LocationHMS
COLLINGWOOD**IELTS**

6.5

Frequency12 courses
per year

ENGINEERING TECHNICIAN QUALIFYING COURSE (ETQC)

**AIM OF COURSE**

The MWS Engineering Technician (ET) Qualifying Course aims to enable the ET(WE) to develop the basic engineering skills and awareness of safety procedures necessary to successfully undertake either further equipment specific training, their initial sea job or Leading ET career course. The ET course is the first stage of an extended career training and development pipeline that culminates with those trainees that demonstrate the necessary skills and ability progressing on to LET and POET.

ENTRY STANDARDS

- ♦ Fluent in English including technical terms
- ♦ GCSE Grade C in Mathematics, English, and Science or equivalent

EXAMINATION/QUALIFICATIONS GAINED

Continuous criteria assessment and final examination in all modules of the course.

POST COURSE RECOMMENDATIONS

- ♦ To gain practical experience at sea
- ♦ Leading Engineering Technician and Petty Officer Engineering Technician courses and the award of a Foundation degree in Electronic Engineering

**Reference No**

003/502

Duration

14 weeks

Location

HMS
COLLINGWOOD,
Fareham,
Hampshire

IELTS

6.5

Frequency

12 courses
per year

ENGINEERING TECHNICIAN QUALIFYING COURSE (ETQC)

REMARKS

Where possible International students attending the Engineering Technician Qualifying Course and wishing to proceed directly onto the Leading Engineering Technician Qualifying Course and the Petty Officer Engineering Technician Qualifying Course will do so by attending an earlier Leading Hand's and Petty Officer's follow on course to alleviate the gap in waiting while RN students go to sea. However this course is not a pre-requisite for attendance on the Leading Engineering Technician Qualifying Course for International Students.

OUTLINE SYLLABUS

- ♦ Basic electrical principles
- ♦ Weapons systems introduction
- ♦ WE & explosive safety
- ♦ Electrical & electrical repair techniques
- ♦ Hand tools
- ♦ Ship WE admin
- ♦ Internal communications
- ♦ Fluid power
- ♦ Leadership training
- ♦ General administration
- ♦ Personal computer systems

**Reference No**

003/501

Duration

16 weeks

LocationHMS
COLLINGWOOD**IELTS**

6.5

Frequency12 courses
per year

LEADING ENGINEERING TECHNICIAN QUALIFYING COURSE (LETQC)

**AIM OF COURSE**

The Leading Engineering Technician (LET) course aims to provide the trainee with cognitive, tactile, administration and leadership skills. The course develops engineering knowledge, skills and awareness of safety procedures and provides the building blocks and academic awareness for further educational and personal development as an Engineering Technician.

RELATED COURSES

Engineering Technician Basic.

ENTRY STANDARDS

- ♦ Fluent in English including technical terms
- ♦ Successfully completed Engineering Technician Basic course or equivalent
- ♦ Must be passed for Leading Hand or equivalent

EXAMINATIONS/QUALIFICATIONS GAINED

Continuous criteria assessment and final examination in all modules of the course.

POST COURSE RECOMMENDATIONS

- ♦ To gain practical experience at sea
- ♦ Petty Officer Engineering Technician course and the award of a Foundation degree in Electronic Engineering

**Reference No**

003/501

Duration

16 weeks

LocationHMS
COLLINGWOOD**IELTS**

6.5

Frequency12 courses
per year

LEADING ENGINEERING TECHNICIAN QUALIFYING COURSE (LETQC)

OUTLINE SYLLABUS

- ♦ Mathematics
- ♦ Personal computer
- ♦ Electronics A
- ♦ Electronics B
- ♦ Engineering science
- ♦ Engineering drawing
- ♦ General engineering maintenance
- ♦ Control principles
- ♦ Fluid power
- ♦ Electrical & electronic repair techniques
- ♦ Internal communications
- ♦ WE & explosive safety
- ♦ WE systems
- ♦ WE admin
- ♦ Basic hand tools
- ♦ RF techniques
- ♦ General administration
- ♦ Advanced communications information systems
- ♦ Integrated engineering project

**Reference No**

003/500

Duration

26 weeks

LocationHMS
COLLINGWOOD**IELTS**

6.5

Frequency9 courses
per year

PETTY OFFICER ENGINEERING TECHNICIAN QUALIFYING COURSE (POETQC)

AIM OF COURSE

The course aims to equip students with the engineering, administration and leadership skills essential to work as electrical and electronic systems engineers. Through work-based learning and a high level of integration of electronic, control and electrical theory and practice, students develop real world competencies in support of complex and integrated engineering systems. This is provided in a challenging, stimulating and self-rewarding study environment.

RELATED COURSES

- ♦ Engineering Technician Basic (ETQC)
- ♦ Leading Engineering Technician Qualifying Course (LETQC)

ENTRY STANDARDS

- ♦ Fluent in English including technical terms
- ♦ Successfully completed Leading Engineering Technician Qualifying Course
- ♦ Must be Leading Hand or equivalent

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Continuous criteria assessment and final examination in all modules of the course
- ♦ Award of Foundation degree from Portsmouth University for successful completion of Leading Engineering Technician and Petty Officer Engineering Technician Qualifying Courses
- ♦ Post course recommendations
- ♦ To gain practical experience at sea

REMARKS

Where possible International students attending both the Leading Engineering Technician Qualifying Course and the Petty Officer Engineering Technician Qualifying Course, for the award of a foundation degree, will do so by attending the Petty Officers course that commences as soon as possible after the completion of the Leading Engineering Technicians course thus making a continuous course.

**Reference No**

003/500

Duration

26 weeks

LocationHMS
COLLINGWOOD**IELTS**

6.5

Frequency9 courses
per year

PETTY OFFICER ENGINEERING TECHNICIAN QUALIFYING COURSE (POETQC)

OUTLINE SYLLABUS

- ♦ Mathematics
- ♦ Electrical engineering science
- ♦ Electrical & electronic principles
- ♦ Electronics C
- ♦ Electronics D
- ♦ Combinational & sequential logic
- ♦ Microprocessor systems
- ♦ Micro controllers
- ♦ RF techniques
- ♦ Radio communications principles
- ♦ Advanced information systems
- ♦ Electro-optics imaging
- ♦ Control A
- ♦ Control B
- ♦ Testing/tuning
- ♦ Fluid power
- ♦ Gyros
- ♦ WE administration
- ♦ Sonar principles
- ♦ Radar principles
- ♦ Electronic warfare
- ♦ WE & explosive safety
- ♦ Engineering design & project
- ♦ General administration



SECTION 9

AIR

ENGINEERING



This section show the Systems Engineering and Management Course (Air Engineering) – SEMC(AE) delivered at HMS Sultan.

**Reference No**

048/329

Duration

40 Weeks

Subject to
successful
completion of
AEQ boards

Location

HMS SULTAN

IELTS

6.5

Frequency

One course
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (AE) GRADUATE (SEMC(AE))

INTRODUCTION

The Air Engineering Systems Engineering and Management Course (SEMC(AE)) for Graduate Officers is designed to prepare junior officers of the Air Engineering specialisation for their first complement appointment in the Fleet Air Arm.

On completion of the course, students will be given a maximum 16-week period within which to gain the award of Certificate of Competency (CofC). Success at this board qualifies the officer to become a Squadron AAEO/DAEO.

AIM OF COURSE

The aim of the course is to train and educate junior Air Engineer Officers to:

- ♦ Administer an Air Engineering Department, ensuring that all maintenance and support tasks are met effectively
- ♦ Direct the maintenance and support of all engineering equipment and systems in his/her charge
- ♦ Organise, train and manage the officers, senior and junior ratings of their department who are in their charge

OUTLINE SYLLABUS

The course has 3 phases (Phase 1 - 3 at DSAE(Gosport)), which are detailed below:

Phase 1

Foundation academics and aircraft systems/Academic and generic aircraft systems training. This is predominantly classroom based using STG Instructors. Ends with Technical Presentation and Assessments.

Phase 2 - Airworthiness Management

Management module. This covers elements such as logistic support, DE&S roles and structure, QA and Fleet Air Arm Organisation. It is delivered using a variety of methods including staff delivered lessons, visiting lecturers and a range of visits to air stations, Fleet, DE&S etc. A specialised workshop module is also undertaken, covering subjects such as expedient repair, sheet metal work, GRP and composite repair, wiring and fibre optics.

**Reference No**

048/329

Duration

40 Weeks

Subject to
successful
completion of
AEQ boards

Location

HMS SULTAN

IELTS

6.5

Frequency

One course
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (AE) GRADUATE (SEMC(AE))

Phase 3 - Squadron Management

Students are expected to apply their training in a variety of increasingly complex scenarios. It includes 6 weeks at 760 Squadron and culminates in the Air Engineering Qualifying Board (AEQB).

Phase 4 - Certificate of Competency (C of C) Training

Students will be given a maximum of 16 weeks to gain their C of C at an air station.

Students will be continually assessed by the course manager and staff throughout the course. Specific assessments are as follows:

- ♦ Technical presentation and technical competency board at the end of Phase 1.
- ♦ Applied Aircraft Management presentation on completion of Phase 2.
- ♦ 760 Squadron practical assessments including CHAOS and a PCM Exercise.
- ♦ Finally, the students will be assessed at an Air Engineering Qualifying Board. This board is presided over by either OC or XO RNAESS and is the final stage of the course prior to undertaking CoC training

TRAINING OBJECTIVES

The objectives of the SEMC(AE) are specifically aimed at meeting the requirements of the junior AEO Role Performance Statement (RPS), and are detailed fully in the supporting documentation for the course. Whilst under training, junior AEOs are provided with an environment conducive with developing the following essential professional skills:

- ♦ A sound knowledge of the engineering principles, practices and techniques that are required by an AEO
- ♦ The ability to apply theoretical knowledge to systems engineering
- ♦ The administrative and managerial skills required by a DAEO

ENTRY STANDARDS - OFFICER RANK: OF1/2

- ♦ Degree or equivalent in mechanical, electrical or aeronautical engineering
- ♦ To be computer literate in Microsoft Word and Excel, or equivalent systems

**Reference No**

048/329

Duration

40 Weeks
Subject to
successful
completion of
AEQ boards

Location

HMS SULTAN

IELTS

6.5

Frequency

One course
per year

SYSTEMS ENGINEERING & MANAGEMENT COURSE (AE) GRADUATE (SEMC(AE))

EXAMINATIONS/ QUALIFICATIONS GAINED

- ♦ Technical presentation board
- ♦ Oral examination, practical assessments and AEQB
- ♦ C of C phase written examinations and oral board at end of OJT
- ♦ Successful students awarded Certificate of Competency

REMARKS

Proof of educational qualifications will be required on joining. In order to take this course, students must be medically fit and able to pass the Royal Navy Fitness Test.

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**Reference No**

048/358

Duration

3 weeks

Location

HMS SULTAN

IELTS

6

Frequency2 courses
per year

ADVANCED AIRCRAFT SHEET METAL TECHNIQUES (TEM 31)

**AIM OF COURSE**

Designed to enhance the skill of hand of selected personnel designated for positions in aircraft sheet metal workshops or for 1710 Sqn repair teams. The course will impart a detailed knowledge of up-to-date techniques and of the materials used in Aircraft Airframe Repairs.

OUTLINE SYLLABUS

On completion of the course, the student will have the necessary knowledge and confidence to carry out advanced aircraft sheet metal repairs. The following aspects are comprehensively covered during the course:

- ♦ Interpretation of complex drawings
- ♦ Manufacture of airframe components
- ♦ Manufacture of double curvatures, using 'wheeling techniques' and washed out flanges
- ♦ Use of specified fasteners and practical repair work
- ♦ Heat treatments of aircraft alloys
- ♦ Production of a forming tool
- ♦ Assembly of manufactured aircraft components

ENTRY STANDARDS

LAET(M) and POAET(M) or equivalent having completed POAETQC or equivalent with aircraft sheet metal experience. OR4 – OR6.

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**Reference No**

048/295

Duration

2 week

Location

HMS SULTAN

IELTS

6

Frequency9 courses
per year

FIBRE REINFORCED PLASTIC & COMPOSITE REPAIRS (TEM 28)

AIM OF COURSE

To train personnel in the principles and repair of Fibre Reinforced Plastics (FRP) and composites.

OUTLINE SYLLABUS

- ♦ Identification of materials and techniques used in FRP repairs
- ♦ Safety precautions and procedures associated with FRP
- ♦ Examination and analysis of aircraft FRP structure for damage
- ♦ Composite repair utilising the Hot Bonding Controller (HBC)
- ♦ Carry out and record specified FRP repairs
 - Damage surface preparation
 - Prepare all materials and equipment required for repair
 - Carry out a glass fibre skin repair to aircraft radome
 - Manufacture a carbon fibre 'Top Hat' section reinforced rib using a mould
 - Carry out an edge repair to a glass fibre fairing panel
 - Carry out a metal to metal bonded repair to an aluminium sandwich structure
 - Carry out a Kevlar energy absorbing patch repair to a metal structure
 - Carry out a Shurlok fastener replacement repair
 - Manufacture a blister patch using a locally manufactured mould
 - Carry out a carbon/nomex sandwich structure repair using a pre-cured pre-preg patch
 - Manufacture a pre-cured patch using carbon Pre-preg cloth
 - Carry out a scarf repair to a carbon fibre panel
 - Explain the procedure for recording an FPR repair

REMARKS

Suitable For – OR4 – OR9.

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SECTION 10

OPERATIONS & PLANNING



WARFARE OFFICER TRAINING

This section shows the courses available to international navies and maritime organisations for Warfare Officer Training delivered by the International and Commonwealth Training Unit (ICTU) as part of the Maritime Warfare School based at HMS Collingwood.

WARFARE DOCTRINE AND PLANNING

This section shows the courses available to international navies and maritime organisations for Warfare Doctrine and Planning training delivered by the Maritime Warfare Centre at HMS Collingwood and Permanent Joint Headquarters, at Northwood.

EYESIGHT STANDARDS

Visual Acuity Standard is to be **Standard II Visual** acuity to be achieved **with or without** correcting lenses

BETTER EYE	WORSE EYE
6/6	6/24
6/9	6/18
6/12	6/12

Colour Perception Standard is to be **CP 1** and is defined as:

- ♦ Successfully identification all the transformation and vanishing plates of the 24 plate Ishihara test OR the correct recognition of coloured lights shown through the paired apertures of the Holmes-Wright lantern at LOW brightness at 6m distance in complete darkness

Colour Perception Standard for **IPWO(A)** and **IPWO(B)** is to be **CP 2** and is defined as:

- ♦ The correct recognition of the first 17 plates of the ISHIHARA test shown in random sequence at a distance of 50 – 100 cm under standard fluorescent lighting supplied by and artificial daylight fluorescent lamp

International students attending IDT(RN) training courses will be required to present documentary proof of eyesight/CP standards on arrival on course. Candidates are to have their eye sight tested by their own authorities or by an appropriate independent medical authority prior to arrival in the UK.

Failure to provide appropriate documentation will constitute a breach of Course Entry Standards and will result in the student(s) being withdrawn from the course.

Further information on these standards can be obtained by contacting IDT(RN) examinations on all aspects of course.

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Reference No

054/433

Duration

12/13 weeks
dependent on
term

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

3 courses
per year

INTERNATIONAL SUB LIEUTENANT (ISL)



AIM OF COURSE

The aim of the course is to provide basic theory and practical experience in Navigation, Seamanship, and Leadership, in order to better prepare International Junior Officers, for a first complement role as Second Officer of the Watch (OOW) and OOW. It also provides a basis for further International training including the ILT and Navigation Courses.

OUTLINE SYLLABUS

- ♦ General Navigation
- ♦ Rule of the Road
- ♦ Coastal Pilotage
- ♦ Chartwork
- ♦ Anchorages
- ♦ Tides, Time & Time Zones, Sunset & Sunrise
- ♦ Bridge Simulator
- ♦ Communications
- ♦ Fleetwork
- ♦ Basic Sea Survival Course (BSSC)
- ♦ Economic Exclusion Zone (EEZ)
- ♦ Board and Search



Reference No

054/433

Duration

12/13 weeks
dependent on
term

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

3 courses
per year

INTERNATIONAL SUB LIEUTENANT (ISL)

- ♦ Seamanship Safety Training
- ♦ First Aid
- ♦ Leadership including when required a fitness test
- ♦ Introduction to Warfare
- ♦ Electronic Chart Display & Information System (ECDIS)

ENTRY STANDARDS

- ♦ To have completed the Initial Naval Training (Officer) (INT(O) or National equivalent
- ♦ Eyesight standards are detailed at the front of the chapter
- ♦ Ability to pass appropriate fitness standard
- ♦ **Note:** Where IELTS is at 5.5 it may be possible to arrange further assessment in order to meet the course requirements

EXAMINATIONS / QUALIFICATIONS GAINED

- ♦ GMDSS 'VHF Short Range' certificate (will require own nation's endorsement)
- ♦ First Aid certificate

POST COURSE RECOMMENDATIONS

Further sea experiences in own navy to obtain Bridge Watch-keeping and Ocean Navigation certificates to STCW standards.



Reference No

054/435

Duration

12 weeks

Location

HMS
COLLINGWOOD

IELTS

6.0

Frequency

2 courses
per year

INTERNATIONAL LIEUTENANTS COURSE (ILT)

AIM OF COURSE

An intermediate course designed to build-on the Navigation and Warfare skill set of Junior Warfare Officers with some previous experience at sea and which will provide a basis for more specialised navigation and/or warfare training.

OUTLINE SYLLABUS

- ♦ Action Information Organisation Maritime Security Operations
- ♦ Relative Velocity
- ♦ Economic Exclusive Zone (EEZ)
- ♦ Maritime Tactical Estimate
- ♦ Search and Rescue
- ♦ Meteorology and Oceanography
- ♦ Explosive Safety
- ♦ Surface Picture Compilation
- ♦ Wide Area Picture Compilation
- ♦ Ops Room voice procedures
- ♦ Helo & Fixed wing aircraft in SW & ASW
- ♦ International Maritime Law and ROE
- ♦ Ops room simulator, practical exercises in Maritime Security Operations and Scenarios
- ♦ Close Range theory and drills

Navigation Module

- ♦ Rule of the Road
- ♦ Tides and Time Zones
- ♦ Communications Management Module to include:
 - Tactical Communications
 - Stationing
 - Forming & Screening
 - RAS & Fleetwork consolidation
- ♦ Charts
- ♦ Chartwork
- ♦ Coastal Navigation
- ♦ Pilotage
- ♦ Charts and Chartwork
- ♦ ECDIS



Reference No

054/435

Duration

12 weeks

Location

HMS
COLLINGWOOD

IELTS

6.0

Frequency

2 courses
per year

INTERNATIONAL LIEUTENANTS COURSE (ILT)

- ♦ Coastal Navigation
- ♦ Introduction to Basic Pilotage
- ♦ Electronic Chart Display & Information System (ECDIS) Bridge Simulator
- ♦ Communications Short Range Certificate (SRC)
- ♦ Practical Navigation in Bridge Simulator, and **(when available)** at sea, conduction Ship Handling, Coastal Passage and basic Pilotage

ENTRY STANDARDS

- ♦ To have completed the RN Initial Naval Training (Officer), or National equivalent, including ISL
- ♦ Candidates ideally should have 500 hours of certified seagoing Bridge Watchkeeping experience
- ♦ Eyesight standards are detailed at the front of the chapter

EXAMINATIONS/QUALIFICATIONS GAINED

Practical assessment in Coastal Navigation and Basic Pilotage conducted in a vessel **(when available)** plus continuous assessment and final examination to RN standard in:

- ♦ Relative Velocity
- ♦ MSO
- ♦ Communications including SRC
- ♦ Bridge Simulator
- ♦ Rule of the Road
- ♦ Sea Phase when available
- ♦ General Navigation Exam

Successful students will be awarded with a Pass, Pass with Merit, or Pass with Distinction. GMDSS 'VHF Short Range' certificate (will require own nation's endorsement).



Reference No

054/028

Duration

10 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

One course
per year

INTERNATIONAL NAVIGATING OFFICERS' COURSE (INOC)

AIM OF COURSE

To prepare officers for appointment as a Navigating Officer in a Corvette, MCMV or offshore Patrol Vessel.

OUTLINE SYLLABUS

- ♦ Passage planning
- ♦ Visual Pilotage
- ♦ Blind Pilotage and Radar
- ♦ Ship Handling
- ♦ Meteorology
- ♦ Relative velocity
- ♦ Navigation aids, GPS/Echo Sounder/Logs/Gyros
- ♦ International Regulation for Prevention of Collisions at Sea (IRPCS)
- ♦ Warship Electronic Chart Display & Information System (WECDIS)
- ♦ Tides and Time
- ♦ Chartwork
- ♦ Practical instruction and assessment in the RN Full Mission Bridge Simulator conducting visual pilotage by day and night.
- ♦ When available practical instruction and assessment in a RN OPV/MM conducting visual and blind pilotage by day and night working closely with the Ships Commanding Officer, Navigator, Officer of the Watch and Bridge Team.

ENTRY STANDARDS

- ♦ Senior Sub-Lieutenant or junior Lieutenant with the equivalent of the RN's Bridge Watch-Keeping certificate with at least 2 years seagoing experience and 1000 hours of certified seagoing Bridge watchkeeping experience
- ♦ Eyesight standards are detailed at the front of the chapter
- ♦ **Note:** Where IELTS is at 5.5 it may be possible to arrange further assessment in order to meet the course



Reference No

054/028

Duration

10 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

One course
per year

INTERNATIONAL NAVIGATING OFFICERS' COURSE (INOC)

EXAMINATIONS/QUALIFICATIONS GAINED

Continuous assessment and final examination to RN standards in:

- ♦ Rule of the Road
- ♦ Tides and time
- ♦ Chartwork and fixing
- ♦ General navigation and ship handling (Simulator)
- ♦ General navigation and ship handling (Sea)

Successful students will be awarded with a Pass, Pass with Merit, or Pass with Distinction.



Reference No

054/070

Duration

10 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

One/two courses
per year

INTERNATIONAL MARITIME COMMUNICATIONS COURSE (IMCC)

AIM OF COURSE

To prepare officers for Communication duties at sea and for Staff Communications Officer and instructional duties ashore.

OUTLINE SYLLABUS

- ♦ Naval manoeuvring instructions and fleet work
- ♦ Data message processing
- ♦ Tactical voice procedures acquaint
- ♦ Radio communications organisations/communications security
- ♦ Radio communications principles
- ♦ Visual signalling procedures acquaint
- ♦ Electronic warfare acquaint
- ♦ Ceremonial acquaint
- ♦ GMDSS Short Range Certificate (SRC)

ENTRY STANDARDS

- ♦ Must have at least 1-year sea experience and have Bridge Watchkeeping experience to a minimum of OOW2 level
- ♦ **Note:** Where IELTS is at 5.5 it may be possible to arrange further assessment in order to meet the course requirements

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ GMDSS SRC Module, once passed, results in a Royal Yachting Association recognised qualification
- ♦ Successful students will be awarded with a Pass, Pass with Merit, or Pass with Distinction

REMARKS

This course is designed for junior officer with limited military communications or technical background and not for those with any in depth experience. The course involves a great deal of self study.

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Reference No

054/029

Duration

28 weeks

Location

HMS
COLLINGWOOD

IELTS

6.5 General

Frequency

One course
per year

INTERNATIONAL PRINCIPAL WARFARE OFFICER (A) (IPWO(A))



AIM OF COURSE

To train selected Officers in the tactical handling of warships, up to Frigate size and the integrated use of associated weapon systems and sensors. This course is designed to enable successful students to act as watchkeeping Warfare Officers dealing with multi axis threats in the AAW, SuW and ASW environments. It also includes training in the conduct of Medium Range Gunnery in support of SuW and Amphibious Operations. Students will also be trained in Task-Group level mission planning procedures.

OUTLINE SYLLABUS

- ♦ Technical module
- ♦ Action Information Organisation



Reference No

054/029

Duration

28 weeks

Location

HMS
COLLINGWOOD

IELTS

6.5 General

Frequency

One course
per year

INTERNATIONAL PRINCIPAL WARFARE OFFICER (A) (IPWO(A))

- ♦ Meteorology & Oceanography
- ♦ Communications and EW
- ♦ Command & Control, Duties
- ♦ Rules of Engagement and International Maritime Law
- ♦ Anti-Air Warfare and Anti-Ship Missile Defence
- ♦ Anti-Surface Warfare
- ♦ Anti-Submarine Warfare, including Mine Warfare
- ♦ Introductions to Amphibious Operations
- ♦ Introductions to Air Operations, Including Search and Rescue
- ♦ Medium range gunnery, including practical drills
- ♦ Explosives Safety
- ♦ Mission planning and in-depth Maritime Tactical Estimate training as part of a dedicated planning syndicate
- ♦ Board and Search training
- ♦ CBRNDC
- ♦ Practical tactical serials and medium range gunnery
- ♦ 7 weeks of practical simulator training culminating in assessed multi-threat scenarios prior to qualification

ENTRY STANDARDS

- ♦ Rank of Lieutenant with at least 5 years seagoing Bridge watchkeeping experience, of which at least 2 should have been as a Lieutenant
- ♦ A minimum of 2000 hours of certified Bridge Watchkeeping experience
- ♦ Must have attended the RN's ILT course or equivalent
- ♦ Eyesight standards are detailed at the front of the chapter

EXAMINATIONS/QUALIFICATIONS GAINED

Written modular progress tests and final exam. Assessed maritime Tactical Estimate planning syndicate presentation. Practical assessment during sea and simulator training.

POST COURSE RECOMMENDATIONS

Consolidation sea training in own Navy with associated weapons systems is strongly recommended.

REMARKS

UK and Multinational publications will be used for all instruction.



Reference No

054/030

Duration

16 weeks

Location

HMS
COLLINGWOOD

IELTS

6.5 General

Frequency

One course
per year

INTERNATIONAL PRINCIPAL WARFARE OFFICER (B) (IPWO(B))

AIM OF COURSE

To train selected Officers in the tactical handling of warships, up to Corvette size, and the integrated use of associated weapon systems and sensors. The course is designed to enable successful students to act as watchkeeping Warfare Officers able to deal with threats from the AAW and SuW environments. It also includes training in the conduct of Medium Range Gunnery in support of SuW Operations. Students will also be trained in Task-Group level mission planning procedures.

OUTLINE SYLLABUS

- ♦ Principles of Radar & Action Information Organisation
- ♦ Communications and EW
- ♦ Command & Control duties
- ♦ Rules of Engagement and International Maritime Law
- ♦ Anti-Air Warfare and Anti-Ship Missile Defence
- ♦ Anti-Surface Warfare
- ♦ Introduction to Anti-Submarine and Mine Warfare (2.5 days theory)
- ♦ Introductions to Air Operations, including Search and Rescue
- ♦ Medium range gunnery, including practical drills
- ♦ Explosives Safety
- ♦ Mission planning and in-depth Maritime Tactical Estimate training as part of a dedicated planning syndicate
- ♦ Board and Search training
- ♦ CBRNDC
- ♦ Close Range Gunnery live firings at sea in an RN Patrol or Mine Warfare vessel (When Available), 5 weeks of practical simulator training culminating in assessed dual-threat scenarios prior to qualification

ENTRY STANDARDS

- ♦ Rank of Lieutenant with at least 5 years seagoing Bridge Watchkeeping experience, of which at least 2 should have been as a Lieutenant
- ♦ A minimum 2000 hours of certified Bridge Watchkeeping experience
- ♦ Must have attended the RN's ILT course or equivalent
- ♦ Eyesight standards are detailed at the front of the chapter



Reference No

054/030

Duration

16 weeks

Location

HMS
COLLINGWOOD

IELTS

6.5 General

Frequency

One course
per year

INTERNATIONAL PRINCIPAL WARFARE OFFICER (B) (IPWO(B))

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Written final exam and assessed maritime Tactical Estimate planning syndicate presentation
- ♦ Practical assessment during sea and simulator training

POST COURSE RECOMMENDATIONS

Consolidation sea training in own Navy with associated weapons systems is strongly recommended.

REMARKS

UK and Multinational publications will be used for all instruction.



Reference No

XXX

Duration

6 Weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

1 course
per year

INTERNATIONAL AIR WARFARE OFFICERS COURSE (IAWO)



AIM OF COURSE

To train selected students in the principles and application of force air warfare in the Maritime domain to enable them to conduct Force Air Defence measures within a mixed or multi-national task group level acting as the Anti-Air Warfare Coordinator (AAWC) on a major Combatant (DD). Students will gain an in depth understanding of force air defence platforms including Combat Aircraft, Airborne Early Warning, Electronic Warfare and Tanking aircraft as well as understanding the role of the Fighter Controller (FC).

OUTLINE SYLLABUS/OBJECTIVES

- ♦ Principles of Radars and Communications in Air Warfare
- ♦ Principles, Command and Control of Force AAW
- ♦ Duties and Responsibilities of the AWO
- ♦ Task group Air Assets
- ♦ Air threat appreciation
- ♦ Maritime Air Defence
- ♦ Task group EW planning, ESM and ECM control
- ♦ Fighter Control, Force Marshalling and Crown procedures
- ♦ Air Estimate Planning, Airspace Control Means and Air Tasking Orders
- ♦ Force Anti-Ship Missile Defence planning
- ♦ Rules of Engagement
- ♦ Understanding and generating the OPTASK AW



Reference No

XXX

Duration

6 Weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

1 course
per year

INTERNATIONAL AIR WARFARE OFFICERS COURSE (IAWO)

ENTRY STANDARDS

Rank of Lt with at least 5 years seagoing bridge watchkeeping experience in a corvette sized vessel or above plus at least 1 year of CIC or Ops room experience. IELTS Level 6 Previous attendance at IPWOA, IPWOB or national equivalent advantageous.

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Practical simulator Assessments
- ♦ Theoretical Exam

POST COURSE RECOMMENDATIONS

Consolidation at sea in a DD as the AWO or PWO A. The course is also a good primer for those going into Air Warfare based staff appointments.

REMARKS

This course focuses on Maritime Force Air Warfare both in practical terms as an AWO on a major combatant and theory-based planning considerations. The course is useful to those who are looking to specialise in force air defence planning or execution, either on a seagoing unit or as part of a Planning or battle staff. Due to the pace and technical nature of this course, it is not suitable to candidates without previous warfare experience.



Reference No

054/027

Duration

14 weeks

Location

HMS
COLLINGWOOD

IETLS

6.5

Frequency

One course
per year

INTERNATIONAL LONG NAVIGATION COURSE (ILNC)



AIM OF COURSE

To prepare officers as navigation specialists prior to an appointment to an ocean-going vessel of Frigate size or above, and to act as a Navigation Instructor or Staff Navigation Officer.

OUTLINE SYLLABUS

- ♦ Passage planning
- ♦ Visual Pilotage
- ♦ Blind Pilotage and Radar
- ♦ Ship handling
- ♦ Meteorology
- ♦ Relative Velocity
- ♦ Navigation aids, GPS/Echo sounders/Logs/Gyros/Sextants (HSA/VSA and Lattice)
- ♦ International Regulations for the Prevention of Collisions at Sea
- ♦ International Regulation for Prevention of Collisions at Sea (IRPCS)
- ♦ Warship Electronic Chart Display & Information System (WECDIS)
- ♦ Tides and Time
- ♦ Chartwork
- ♦ Bridge Resource Management
- ♦ Magnetism and Compass Theory



Reference No

054/027

Duration

14 weeks

Location

HMS
COLLINGWOOD

IETLS

6.5

Frequency

One course
per year

INTERNATIONAL LONG NAVIGATION COURSE (ILNC)

- ♦ Naval Gunfire Support
- ♦ Astro Navigation
- ♦ International Maritime Law
- ♦ CASEX and Submarine Safety
- ♦ Helicopter Operations
- ♦ Communications and Fleetwork (Theory and Practical Naval Manoeuvring)
- ♦ Practical instruction and assessment in the RN Full Mission Bridge Simulator conducting visual pilotage by day and night
- ♦ When available practical instruction and assessment in a RN OPV conducting visual and blind pilotage by day and night working closely with the Ships Commanding Officer, Navigator, Officer of the Watch and Bridge Team

ENTRY STANDARDS

- ♦ Rank of Lieutenant with at least 5 years seagoing bridge experience since gaining the National equivalent of the RN's Bridge Watchkeeping Certificate; of which at least 1 year must have been spent as the Navigating Officer of a Corvette or larger vessel
- ♦ A minimum of 2000 hours certified Bridge Watchkeeping experience
- ♦ Eyesight standards are detailed at the front of the chapter

Note: Where IELTS is at 6.0 it may be possible to arrange further assessment to meet the course requirements.

EXAMINATIONS/QUALIFICATIONS GAINED

Continuous assessment and final examination to RN standards in:

- ♦ Rule of the Road 90%
- ♦ Chart work and Fixing 70%
- ♦ Tidal Theory, Tides and Time 70%
- ♦ General Navigation & ship handling 2 parts 70%
- ♦ Astro Navigation 70%
- ♦ Pilotage and Ship Handling (Sim and sea) 70%

Successful students will be awarded a pass, Pass with Merit, or Pass with Distinction.



Reference No

054/034

Duration

14 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

One course
per year

INTERNATIONAL SMALL SHIPS COMMAND COURSE (ISSCC)

AIM OF COURSE

To train officers, selected as Commanding Officers and Executive Officers of Mine Countermeasures Vessels, Offshore Patrol Vessels and Corvettes, in the safe handling and employment of ships in maritime operations.

OUTLINE SYLLABUS

The course anticipates a degree of prior experience (see Entry Standards below) both in the theory of maritime operations and in practice at sea. The broad areas of the syllabus are:

- ♦ Warfare environments refresher
- ♦ Explosive safety
- ♦ Exclusive Economic Zone (EEZ) (short course)
- ♦ Seamanship
- ♦ Board and search operations
- ♦ General and Tactical communications
- ♦ Global Maritime Distress Safety System (GMDSS) – Short Range Certificate (SRC)
- ♦ CBRN 2A (Ships fire fighting and Damage Control)
- ♦ Passage planning
- ♦ Pilotage
- ♦ Blind pilotage and Radar
- ♦ Ship handling
- ♦ Meteorology
- ♦ Relative velocity
- ♦ Navigation aids, GPRS/Echo sounders/Logs/Gyros
- ♦ International Regulations for Preventing Collisions at Sea
- ♦ Tides and time
- ♦ Chartwork
- ♦ Warship Electronic Chart Display Information System (WECDIS)
- ♦ Practical instruction and assessment in the Royal Navy Full Mission Bridge Simulator acting as the Commanding Officer during visual pilotage/blind by day and night, anchoring, ship handling and collision avoidance with the International Regulations for Preventing Collisions at Sea



Reference No

054/034

Duration

14 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

One course
per year

INTERNATIONAL SMALL SHIPS COMMAND COURSE (ISSCC)

- ♦ When available one week of practical instruction in a Royal Navy warship (OPV/MPV) operating in the Portsmouth, Plymouth or Clyde Exercise Areas, conducting maritime exercises designed to test and develop the students Command and leadership abilities, ship handling and collision avoidance knowledge in accordance with the International Prevention of Collision at sea. Students will be trained to plan and adjust serials working closely with the Ships team especially Commanding Officer, Navigator, Officer of the Watch and Bridge Team

ENTRY STANDARDS

- ♦ Officers selected as Commanding Officers, or Executive Officers of MCMV's, OPV's or Corvettes
- ♦ Must be the rank of senior Lt or above with at least 4 years seagoing experience. Ideally for which at least 1 year must have been spent as the Navigating Officer of a OPV or Corvette
- ♦ Ideally should have completed the RN's INOC, or IPWO or national equivalents
- ♦ Eyesight standards are detailed at the front of the chapter

Note: Where IELTS is at 6.0 it may be possible to arrange further assessment to meet the course requirements.

EXAMINATIONS/QUALIFICATIONS GAINED

Continuous assessment and final examination to RN standards in:

- ♦ Rule of the Road (IRPCS) 90%
- ♦ Pilotage and Navigation Serials (Sim and sea) 70%

POST COURSE RECOMMENDATIONS

Having been taught the general principles, students will be expected to relate those principles to their own vessels.

REMARKS

The course emphasises the command aspects of peacetime operation of MCMVs, OPVs and Corvettes in support of activities in the Exclusive Economic Zone. The tactical use of these vessels in war is covered within the IPWO courses.



Reference No

054/017

Duration

4 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

3 courses
per year

EXCLUSIVE ECONOMIC ZONE PROTECTION OFFICER (EEZ)

AIM OF COURSE

The aim of the course is to provide participants with background knowledge required by professional maritime practitioners and affiliates, as well as other important decision makers in EEZ Management and operations with a view to enabling a better understanding of the issues involved.

OUTLINE SYLLABUS

The course includes lectures and presentations covering:

- ♦ History of the EEZ
- ♦ International Maritime Law
- ♦ Fishery Protection
- ♦ Piracy and Armed Robbery*
- ♦ Search and Rescue*
- ♦ Maritime Police*
- ♦ Customs and Counter Smuggling*
- ♦ Immigration*
- ♦ UK Border Force* (UKBF)
- ♦ International Ship and Port Facilities Security Code (ISPS)
- ♦ Board and Search Training
- ♦ Met and Oceanography
- ♦ Global Maritime Distress and Safety System (GMDSS)
- ♦ Vessel Design
- ♦ Vessel Traffic Services* (VTS)
- ♦ Maritime Pollution*
- ♦ Safety of Merchant Shipping in Crisis and War
- ♦ Aircraft in Support of EEZ
- ♦ Student's Country Presentations

*Classroom studies are complemented by visits to:

- ♦ The International Maritime Organisation (IMO)
- ♦ The International Maritime Bureau (IMB)
- ♦ The Joint Maritime Security Centre (JMSC)
- ♦ The Maritime Trade Information Centre (MTIC)



Reference No

054/017

Duration

4 weeks

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

3 courses
per year

EXCLUSIVE ECONOMIC ZONE PROTECTION OFFICER (EEZ)

- ♦ The Maritime Coastguard Agency's National Maritime Operation Centre (MCA) (NMOC)
- ♦ Royal National Lifeboat Institution's (RNLI) College
- ♦ Global Oil Spill Response Ltd
- ♦ Solent Vessel Traffic Services

ENTRY STANDARDS

- ♦ Officers of Lieutenant Commander to Captain (Navy) Level or equivalent and preferably operations officers of a patrol craft or Headquarters Watchkeeping Officers, with a minimum of 2 years sea experience

EXAMINATIONS/QUALIFICATIONS GAINED

Not applicable

REMARKS

The course emphasises peacetime operations both ashore and afloat in support of activities in the Exclusive Economic Zone. This course is ideally suited to the officers and managers of Naval/Coastguard seagoing vessels and shore headquarters. It has also attracted members of other agencies active in the maritime environment such as Customs, Drug Enforcement, Fisheries, Government, Immigration, Police, Ports and Harbour Authorities, Wildlife as well as other military personnel from Army, Air, and Special Forces.



Reference No

054/026

Duration

6 weeks

Location

HMS
COLLINGWOOD

IELTS

6 General

Frequency

One course
per year

INTERNATIONAL MARITIME ELECTRONIC WARFARE COURSE (IMEWC)

AIM OF COURSE

To train selected students in the principles and applications of Electronic Warfare (EW) in the Maritime domain to enable them to provide command advice on Anti-Ship Missile Defence (ASMD), Electronic Support Measures (ESM), Electronic Countermeasures (ECM), and to develop an appreciation of how threat-based intelligence analysis is conducted.

OUTLINE SYLLABUS

- ♦ Theoretical principles of radars and communications in EW
- ♦ The scope of Maritime EW (ESM, ECM, EPM)
- ♦ Signature reduction techniques
- ♦ Softkill decoy systems
- ♦ EW Equipment, Mutual Interference, Trials and Calibrations
- ♦ EW information and dissemination
- ♦ The threat in the Maritime domain
- ♦ Anti-Ship Missile targeting systems and missile control
- ♦ Anti-Ship Missile Defence planning
- ♦ Task Group EW planning and ECM control
- ♦ Maritime Intelligence principles
- ♦ Ships Intelligence teams
- ♦ Understanding and generating the OPTASK EW message
- ♦ Participation in a practical scenario-based training exercise

ENTRY STANDARDS

Warfare trained, advantageous to have some knowledge of EW. IELTS Level 6.

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Continuous Assessment
- ♦ Theoretical Exam
- ♦ Practical Table-Top Planning Exercise



Reference No

054/026

Duration

6 weeks

Location

HMS
COLLINGWOOD

IELTS

6 General

Frequency

One course
per year

INTERNATIONAL MARITIME ELECTRONIC WARFARE COURSE (IMEWC)

POST COURSE RECOMMENDATIONS

EW operators and managers should gain training on specific EW equipment fitted to their platforms, if not already done so, prior to consolidating this training at sea. Officers and Senior Rates using the course for command overview purposes would look to gain consolidation in an appropriate environment.

REMARKS

This course provides a broad scope covering all aspects of EW in the maritime domain. It would be suitable for Officers and Senior Rates requiring a comprehensive knowledge of EW capabilities, tactics and planning. Examples include; Ship Operations Officers, Planning Staff, Shore battery commanders and instructors that require an understanding of Maritime EW. It would also suit senior operators who have or will, conduct training on national equipment. It should be noted that this course does not provide equipment specific training.



Reference No

054/069

Duration

2 weeks

Location

The
Communications
Faculty, HMS
COLLINGWOOD

IELTS

6.0

Frequency

Regular

GLOBAL MARITIME DISTRESS SAFETY SYSTEM GENERAL OPERATIONS CERTIFICATE (GMDSS GOC)

AIM OF COURSE

To prepare candidates for the Global Maritime Distress and Safety System General Operations Certificate (GMDSS GOC) iaw STCW 95 Regulations.

OUTLINE SYLLABUS

- ♦ GMDSS safety of life at sea regulations
- ♦ GMDSS radio regulations
- ♦ Practical performance test for the following equipment:
 - (1) MF/HF transceiver
 - (2) DSC controller
 - (3) VHF transceiver
 - (4) Navtex receiver
 - (5) Telex (NBDP)
 - (6) Inmarsat C and Inmarsat Fleet Broad Band (FBB)
 - (7) Keyboards for data entry
- ♦ Miscellaneous GMDSS equipment (inc EPIRB, SART, AIS EPIRB and AIS SART)
- ♦ Miscellaneous skills and operational procedures for general communications, including Distress voice procedure and logging
- ♦ Assessment and discussion

ENTRY STANDARDS

- ♦ Available for all rates and ranks
- ♦ Preferably have basic knowledge of maritime radio communications practice and English language
- ♦ Preferably have reasonable keyboard skills (DISTRESS reporting at 50 Characters Per Min typed)
- ♦ Prior reading of relevant course information and basic communications
- ♦ Knowledge of Phonetic Alphabet
- ♦ **Note:** Where IELTS is at 5.5 it may be possible to arrange further assessment in order to meet the course requirements



Reference No

054/069

Duration

2 weeks

Location

The
Communications
Faculty, HMS
COLLINGWOOD

IELTS

6.0

Frequency

Regular

GLOBAL MARITIME DISTRESS SAFETY SYSTEM GENERAL OPERATIONS CERTIFICATE (GMDSS GOC)

EXAMINATION/QUALIFICATION GAINED

The GMDSS General Operator's Certificate qualifies the holder to operate any suitable licensed marine Radio Telephony (RT), Digital Selective Calling (DSC) or Maritime Mobile Earth Station onboard a GMDSS fitted vessel. Exams are conducted in accordance with directive from the Maritime Coastguard Agency (MCA).

REMARKS

This course requires out of hours self study culminating in a final examination set out by the provisions in the radio regulations for the International Telecommunications Union (ITU) and International Maritime Organisation (IMO).



Reference No

054/006

Duration

7 weeks

Location

HMS
COLLINGWOOD

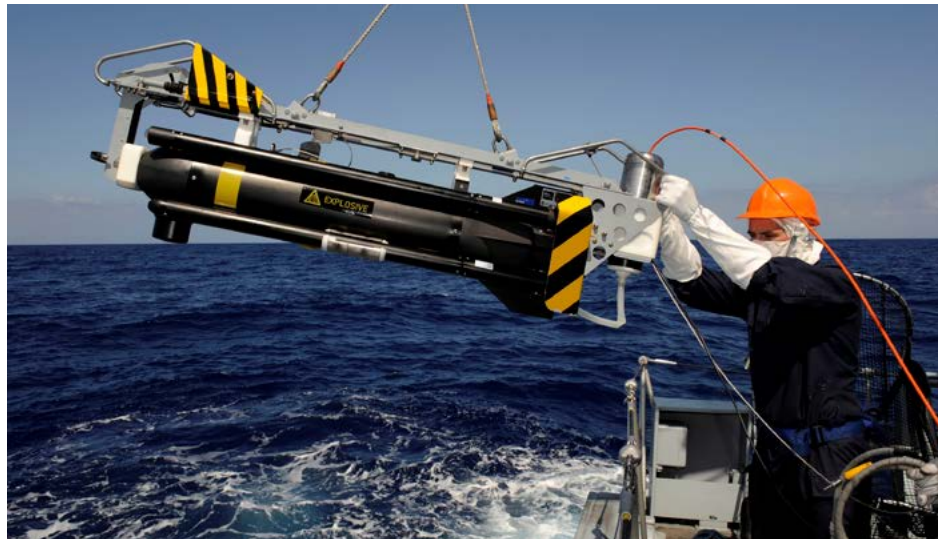
IELTS

6.5

Frequency

2 courses
per year

ADVANCED MINEWARFARE



AIM OF COURSE

To train officers appointed to Staff MCM positions in advanced Mine Warfare skills.

OUTLINE SYLLABUS

- ♦ Week 1 – Operational environment minefield planning module & mining scheme
- ♦ Week 2-5 – Battlestaff procedures, MW planning and evaluation tools, includes key visits to RN operational groups and RN/MW Tactical Support System (MTSS)
- ♦ Week 6 – (MCM Module) Mine Countermeasures planning & preparations for practical training including MCM Commander's Estimate
- ♦ Week 7 – at BE/NL MW school, Ostend using MW Gaming simulator for practical training and assessment

ENTRY STANDARDS

- ♦ Mine Warfare Clearance Diving Officer or Mine Warfare Officer
- ♦ Knowledge of and experience in ship or unit level mine warfare tactics and procedures is essential
- ♦ Attendance on a national or UK Maritime Warfare Course (MWARC) including the ability to lead a Maritime Estimate is a prerequisite for this course



Reference No

054/006

Duration

7 weeks

Location

HMS
COLLINGWOOD

IELTS

6.5

Frequency

2 courses
per year

ADVANCED MINEWARFARE

EXAMINATIONS/QUALIFICATIONS GAINED

Continuous appraisal throughout the course and assessment during practical training at Eggermin Minewarfare School, Belgium.

POST COURSE RECOMMENDATIONS

MCM Staff Officer or MCM Squadron Operations Officer or Chief of Staff appointment.

REMARKS

Certain visits/publications/lectures will have AUS/CAN/UK/US Eyes Only caveats. Alternative studies may be arranged for students without suitable clearances. The minimum security clearance is NATO SECRET.



Reference No

054/423

Duration

5 Days

Location

HMS
COLLINGWOOD

IELTS

6.5

Frequency

Two courses
per year

MARTITIME TRADE ORGANISATION - OFFICER IN CHARGE



AIM OF COURSE

For students to obtain the necessary knowledge, skills and attitude to act as a member of a MTO Element, carrying out duties and tasks required of an Officer in Charge, including OiC Deployed Element OiC (and afloat), Shipping Coordinator, Liaison Officer (LO), Allied Worldwide Navigational Information System (AWNIS) OiC, AWNIS LO, NATO Shipping Centre (NSC) OiC.

OUTLINE SYLLABUS

By the end of the training package students will be able to:

- ♦ Describe the MTO, NCAGS and AWNIS effects
- ♦ Describe the duties and tasks required of a Desk Officer
- ♦ Identify the key MTO publications
- ♦ Manage the information cycle
- ♦ Manage the incident management cycle
- ♦ Manage media Standard Operation Procedures (SOPs)
- ♦ Describe law of the sea basics
- ♦ Conduct threat evaluation
- ♦ Conduct MTO planning for operations
- ♦ Participate in a practical scenario

ENTRY STANDARDS

Suitable for junior officers new to MTO and experienced Senior Rates.

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Reference No

054/044

Duration

5 days

Location

HMS
COLLINGWOOD

IELTS

5.5

Frequency

3 courses
per year

MERCHANT NAVY (MN) BRIEFING COURSE

AIM OF COURSE

For students to obtain the necessary knowledge, skills and attitude to be able to engage appropriately with the shipping industry (including to carry out the Briefing Officer role).

OUTLINE SYLLABUS

By the end of the training package students will be able to:

- ♦ Summarise the shipping organisation down to individual ship management
- ♦ Describe ship operations
- ♦ Describe port operations
- ♦ Describe effective communication
- ♦ Brief a ship's master

ENTRY STANDARDS

- ♦ Suitable for senior ratings and junior officers who have some Maritime Trade Organisation (MTO), (Allied Worldwide Navigation Information System (AWNIS) and Naval Cooperation and Guidance of Shipping (NCAGS)) experience
- ♦ Should have participated in a least one NATO exercise in an NCAGS role

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Reference No

054/072

Duration

5 days

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

2 courses
per year

MARITIME TRADE OPERATIONS (MTO) STAFF OFFICER COURSE

AIM OF COURSE

For students to obtain the necessary knowledge, skills and attitude to act as a member of a MTO Element, carrying out duties and tasks required of a Staff Officer (SO) (including SO2 on Battle Staff, SO Naval Cooperation & Guidance of Shipping (NCAGS), SO Allied Worldwide Navigation Warning System (AWNIS)).

OUTLINE SYLLABUS/OBJECTIVES

By the end of the training package students will be able to:

- ♦ Achieve the MTO effects in support of the MCC's mission based on a practical scenario

ENTRY STANDARDS

- ♦ Suitable for experienced MTO (AWNIS and NCAGS) officers. Experienced Lieutenant and Lieutenant Commanders only
- ♦ Must have participated in a number of NATO exercises in both AWNIS and NCAGS roles

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Reference No

054/440

Duration

7 days

Location

HMS
COLLINGWOOD

IELTS

6

Frequency

3 courses
per year

MARITIME TRADE OPERATIONS (MTO) PRACTICAL ROLE BASED ASSESSMENT

AIM OF COURSE

For Students to act as a member of a MTO Element, carrying out duties as required based on an exercise scenario in a safe training environment.

OUTLINE SYLLABUS/OBJECTIVES

Putting theory into practice. By the end of the training package students will be able to demonstrate that they can carry out the duties and tasks required of them based on a practical scenario. Students will take the skills learnt in an MTO training course and put them into practice during the Practical Role Based Assessment.

ENTRY STANDARDS

Suitable for all MTO (Allied Worldwide Navigation Warning System (AWNIS) and Naval Cooperation & Guidance of Shipping (NCAGS)) personnel with some experience and understanding of AWNIS and NCAGS.

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SECTION 11

CBRND &

SEA SURVIVAL



This section shows the courses available to international navies and maritime organisations for training at the Phoenix Damage Repair and Instructional Unit (known as the DRIU), Firefighting Training Unit and Horsea Lake. This includes classroom, simulator and outdoor based training.

**Reference No**

019/035

Duration

5 weeks

LocationPHOENIX,
HMS EXCELLENT**IELTS**

6

Frequency4 – 6 courses
per year

SENIOR RATINGS' ADVANCED COURSE – CBRNDC 35

**AIM OF COURSE**

To prepare senior ratings drafted to ships as the specialist assistant to the CBRNDC Officer or as a specialist CBRNDC qualified Senior Rate. Additionally to expand the damage control and firefighting techniques to enable them to plan, organise and undertake continuation training.

OUTLINE SYLLABUS**Week 1:**

- ♦ Firefighting organisation, firefighting systems and equipment (1 day)
- ♦ Practical firefighting (1½ days)
- ♦ Sea survival theory and practical drills (1 day)
- ♦ CBRNDC organisation, CBRN drills (half day)
- ♦ Practical damage repair (half day)

Week 2:

A thorough revision and updating of CBRNDC knowledge and experience through classroom lectures, theoretical and practical exercises.

Week 3:

CBRN classroom instruction, supervised syndicate work and student presentations.

**Reference No**

019/035

Duration

5 weeks

LocationPHOENIX,
HMS EXCELLENT**IELTS**

6

Frequency3 courses
per year

SENIOR RATINGS' ADVANCED COURSE - CBRNDC 35

Week 4:

- ♦ Advanced rescue procedures for removing injured personnel from a fire environment
- ♦ Special Firefighting techniques
- ♦ Dealing with explosive stores involved in ship fires
- ♦ Aid to another ship
- ♦ Continuation training
 - (1) First Aid Firefighting
 - (2) Hose Team techniques
 - (3) Search and Rescue techniques
 - (4) Breathing apparatus use, and control of wearers
- ♦ Fire prevention

Week 5:

Final lectures on CBRNDC culminating in CBRNDC and other practical assessed training, to enable the CBRNDCQ to train, umpire and plan the CBRNDC training for the ship.

ENTRY STANDARDS

- ♦ Must be an experienced senior rating who has completed basic and further CBRNDC training in their own navy to an acceptable RN standard, or to have completed the RN Intermediate Sea Safety course. To be employed in a position of firefighting and damage control training
- ♦ Basic Sea Survival Course (BSSC)

EXAMINATION / QUALIFICATIONS GAINED

MCA Certificates in 'Personal Survival Techniques' and 'Advanced Fire Fighting'.

POST COURSE RECOMMENDATIONS

Further experience instructing, organising, planning and umpiring damage control and firefighting techniques to the ship's company.

REMARKS

There are restricted modules which non-NATO or international students cannot attend.

Week 3 (CBRN) is based around the student being able to fit, issue, maintain and test the UK Forces in-service General Service Respirator so may not be suitable for people with facial hair.

**Reference No**

019/010

Duration

0.5 days

Location

PHOENIX,
HMS EXCELLENT
or
HMS RALEIGH

IELTS

6

Frequency

As required

DAMAGE REPAIR UNIT (SHIP'S TEAM) TRAINING

**AIM OF COURSE**

To teach officers and ratings, of all specialisations, the fundamentals of ship damage repair techniques by practical demonstration and exercises.

OUTLINE SYLLABUS

An introductory brief and walk round of a Damage Repair Instructional Unit (DRIU) followed by exercises and practical incidents in which students are involved in pumping, electric failure, leak stopping, and shoring.

ENTRY STANDARDS

Candidates to have completed basic CBRNDC training.

REMARKS

This course is only for ships' damage control parties. It is not for individual training.

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**Reference No**

019/003

Duration:

4 days

Location

PHOENIX,
HMS EXCELLENT
or
HMS RALEIGH

IELTS

6

Frequency

as required

FIRST AID – CBRNDC 23

AIM OF COURSE

To train naval personnel in administering first aid to certificate standards laid down by Health and Safety (First Aid) regulations 1981 and STANAG 2122 First Aid subjects.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Principles and Objectives of First Aid
- ♦ Identification of hazards
- ♦ Primary Survey
- ♦ Unconscious casualty
- ♦ Heart conditions
- ♦ Provision of basic life support
- ♦ Cardio-Pulmonary Resuscitation
- ♦ Hypoxia
- ♦ Shock
- ♦ How to arrest a bleed
- ♦ Fractures and dislocations
- ♦ Climatic injuries
- ♦ Burns
- ♦ Poisons
- ♦ First aid kits and boxes
- ♦ Secondary survey
- ♦ Casualty handling

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Practical skills assessment
- ♦ CPR assessment
- ♦ Theory exam
- ♦ CBRNDC Level 2 First Aid accredited by Institute of Naval Medicine (INM) and Maritime Coastguard Agency(MCA)

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**Reference No**

019/025

Duration

4.5 Days

LocationPHOENIX,
HMS EXCELLENT**IELTS**

6

Frequency3 courses
per year

HEAD OF DEPARTMENT - CBRNDC 4

**AIM OF COURSE**

To provide officers of any specialisation who are appointed as Head of Department with theoretical and practical knowledge of CBRNDC matters.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Damage control organisation instruction
- ♦ CBRN instruction
- ♦ Practical exercises in the classroom and trainers
- ♦ Stability instruction
- ♦ Exercise planning
- ♦ Reference books
- ♦ Peace radiological hazards (WE only)

ENTRY STANDARDS

- ♦ Intermediate Sea Safety Course on week prior to course start
- ♦ Must be experienced officers who have completed either the RN Officers Standard CBRNDC Course (CBRNDC 5) or an RN accepted equivalent
- ♦ Ranks OF3 and above

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**Reference No**

019/008

Duration

4.5 days

LocationPHOENIX,
HMS EXCELLENT**IELTS**

6

Frequency25 courses
per year

OFFICERS' STANDARD COURSE – CBRNDC 5

AIM OF COURSE

To provide officers of any specialisation with a basic theoretical and practical knowledge of CBRNDC matters.

OUTLINE SYLLABUS

Topics covered include:

- ♦ CBRNDC organisation, roles and responsibilities
- ♦ Incident Board Operation
- ♦ Risk and control markings
- ♦ Stability
- ♦ Effect of damage
- ♦ Incident Management and Reporting
- ♦ Pumping and Flooring
- ♦ Fixed Firefighting/HPSW arrangements
- ♦ Command & Control Table Top Tactics
- ♦ Safe Systems of Work/Ship Hazard management
- ♦ Practical simulator exercises
- ♦ Syndicate work

ENTRY STANDARDS

- ♦ Candidates must have completed a general basic naval officer training.
- ♦ Rank range SLt or above

EXAMINATIONS/QUALIFICATIONS GAINED

There is no assessment for this course (attendance course) or certificate awarded.

REMARKS

This course does not include practical firefighting training or Damage Repair Instructional Unit (DRIU) instruction.

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**Reference No**

019/007

Duration

5 days

LocationPHOENIX,
HMS EXCELLENT**IELTS**

6

Frequency7 courses
per year

PROTECTION OFFICER – CBRNC 8

AIM OF COURSE

To prepare specialist officers and senior rates appointed to ships as an CBRN Protection Officer or an CBRN Protection Officer's assistant.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Hazards of CBRN agents
- ♦ Ships CBRN protection
- ♦ Effects of nuclear weapons
- ♦ Plotting hazard areas training
- ♦ Warning and reporting of CBRN hazards
- ♦ CBRN detection instruments
- ♦ Exercising ships response to a nuclear weapon incident
- ♦ Exercising ships response to chemical weapon incident
- ♦ Ship monitoring and decontamination
- ♦ Familiarisation with cleansing station and drills
- ♦ Command advice for operating in a CBRN environment

ENTRY STANDARDS

- ♦ Desirable to have completed the Intermediate Sea Safety course on the week prior to course start
- ♦ Ship experience as an Officer or Senior Rate with CBRN responsibilities

REMARKS

The 'plotting hazard areas' and warning and reporting' section of the syllabus (8 periods) uses NATO classified publications and procedures.

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**Reference No**

019/016

Duration

5 Days

Location

CBRNDC
School at
HMS EXCELLENT

IELTS

5.5

Frequency

Weekly

BASIC SEA SAFETY COURSE (BSSC)

**AIM OF COURSE**

Mandatory PJT for all RN officers and ratings before proceeding to sea for the first time.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Firefighting organization, equipment and techniques (1 day)
- ♦ Practical firefighting (1.5 days)
- ♦ Sea survival theory and practical drills (1 day)
- ♦ CBRNDC theory, organization, communications, states and conditions (0.5 day)
- ♦ Practical damage control (0.5 day)
- ♦ CBRN Protection, collective and Individual Protective Equipment (IPE) and CBRN Drills (0.5 day)

EXAMINATIONS/QUALIFICATIONS GAINED

MCA Certificate in 'Personal Survival Techniques' and 'Fire Prevention and Firefighting'.

REMARKS

Course includes practical drills in CBRN (in a CS gas environment), firefighting, damage control and sea survival.

NB: THE COURSE IS DESIGNED TO BE REALISTIC AND STRESSFUL

International Defence Training (Royal Navy)

www.royalnavy.mod.uk/idt

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**Reference No**

019/012

Duration

4.5 Days

LocationPhoenix TU
Triumph Sqdn**IELTS**

5.5

Frequency

Weekly

INTERMEDIATE SEA SAFETY COURSE (ISSC)

AIM OF COURSE

Mandatory PJT for all RN officers and ratings during period of notice for seagoing appointment or draft.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Firefighting organization, Firefighting systems and equipment (1 day)
- ♦ Practical firefighting (1.5 days)
- ♦ Sea survival theory and practical drills (1 day)
- ♦ CBRN Protection, collective and Individual Protective Equipment (IPE) and CBRN Drills (0.5 day)
- ♦ Practical damage repair (0.5 day)

ENTRY STANDARDS

- ♦ Basic New Entry training
- ♦ Basic Sea Safety Course standard
- ♦ Sea going experience

EXAMINATIONS/QUALIFICATIONS GAINED

MCA Certificates in 'Personal Survival Techniques' and 'Fire Prevention and Fire Fighting'.

REMARKS

Course includes practical CBRN drills in CS gas environment, practical firefighting, damage repair and sea survival.

NB: THE COURSE IS DESIGNED TO BE REALISTIC AND STRESSFUL

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**Reference No**

048/245

Duration

5 days
HMS SULTAN and
5 days
OJT at
HMS EXCELLENT

Location

HMS SULTAN &
HMS EXCELLENT

IELTS

6.5

Frequency

3 courses
per year

SEA SURVIVAL INSTRUCTOR (SSI)

AIM OF COURSE

To train students in the instruction of Sea Survival techniques and the management of Sea Survival Training.

OUTLINE SYLLABUS

The use, servicing, and maintenance of sea survival equipment and the medical aspects of survival.

ENTRY STANDARDS

- ♦ Passed Instructional Methods Course (or relevant service equivalent)
- ♦ Qualified Sea Survival Equipment Maintainer/Supervisor
- ♦ Open to officers and senior rates (or equivalent in other services, including reservists)

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Written, practical and oral examinations
- ♦ Sea Survival Instructor accreditation

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**Reference No**

048/245

Duration

3 days

Location

HMS SULTAN

IELTS

6.5

Frequency22 courses
per year

SEA SURVIVAL EQUIPMENT MAINTAINER/ SUPERVISOR (SSEM(S))

AIM OF COURSE

To train students in the maintenance and supervision of Sea Survival equipment.

OUTLINE SYLLABUS

Maintenance and supervision of Sea Survival equipment.

ENTRY STANDARDS

Open to naval ratings with Sea Survival equipment responsibility.

EXAMINATION / QUALIFICATIONS GAINED

- ♦ Two practical and a final written examinations
- ♦ SSEM(S)

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SECTION 12

SUBMARINES



This section shows courses that are run by the Royal Navy Submarine School (RNSMS) at HMS RALEIGH for Officers and Ratings of international navies and maritime organisations. The training offered at the RNSMS is built around Computer Based Training which uses aural recording lessons and where required, scenario based in purpose-built simulators which can replicate scenarios found on a submarine. Instruction also takes place in the classroom and on simulators.



BASIC AURAL ANALYSIS

Reference No

006/187

Duration

5 days

Location

Royal Navy
Submarine
School (RNSMS)

IELTS

6.5

Frequency

One course
per year

AIM OF COURSE

Junior Sonar Operators will be trained in the basics of sonar analysis. This will allow the operator to differentiate, understand and recognise the different sounds within the world's oceans which are naturally occurring or from shipping contacts or other non-naturally generated sources.

OUTLINE SYLLABUS

- ♦ To be able to recognise the different sounds that a Sonar Operator will hear while conducting their duties as a Sonar Operator
- ♦ To be able to recognise the sounds generated by different vessels, these include: Whine, Fetter, in/out, Shaft Rub, Diesel Roar, Trawl Noise, Cavitation and other associated noises
- ♦ To be able to understand the process in conducting shaft revolution and blade counting which is related to the shaft and blade configuration of a vessel
- ♦ To be able to recognise when a vessel changes speed by assessing Shaft Revolution changes, number of shafts fitted to a vessel and the blade configuration
- ♦ To recognise and report on the differences between Cavitation, Compressed cavitation and how the noise is generated
- ♦ To distinguish the different sounds generated by diesel engines
- ♦ To be able to listen and determine the different types of biological noises generated by different species of fish and sonic mammals

RELATED COURSES

- ♦ Advanced Aural Analysis course
- ♦ Basic LOFAR Analysis course

REMARKS

The correct level of Security Clearance is required by any student attending the course. The students will be exposed to sensitive information throughout their enrollment on the course, and the information delivered should be treated with the correct level of security and scrutiny. Students should be aware that some parts of the course will contain self-taught computer-based training packages (in English Language only).

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ADVANCED AURAL ANALYSIS

Reference No

006/188

Duration

5 days

Location

Royal Navy
Submarine
School (RNSMS)

IELTS

6.5

Frequency

1 course per year

**AIM OF COURSE**

To advance the student from the successful completion of basic Aural Analysis course in understanding the fundamentals of noises generated in the world's oceans, through to conducting advanced aural training with Sonar Operators in performing detailed aural sonar analysis.

OUTLINE SYLLABUS

- ♦ Developing the skills learnt during the Basic Aural Analysis course
- ♦ To understand the different active sonars that produce noises which are transmitted into the water
- ♦ To be able to make contact classification and conduct analysis on the different Active sonars used by military and non-military vessels
- ♦ To be able to conduct detailed analysis, relate them to a specific type of vessel to provide a classification of a noise
- ♦ A one week course utilizing the RNSMS Sonar Training Department. The course has regular progress tests to ascertain the progress of the student. It concludes with a final exam which is a pass or fail



ADVANCED AURAL ANALYSIS

RELATED COURSES

Basic Aural Analysis Course.

REMARKS

The correct level of Security Clearance is required by any student attending the course. The students will be exposed to sensitive information throughout their enrollment on the course, and the information delivered should be treated with the correct level of security and scrutiny. Students should be aware that some parts of the course will contain self taught computer-based training packages (in English Language only).

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**Reference No**

006/185

Duration

5 Days

Location

Royal Navy
Submarine
School (RNSMS)

IELTS

6.5

Frequency

One course
per year

BASIC LOW FREQUENCY ARRAY (LOFAR) ANALYSIS

AIM OF COURSE

To train sonar analysts the fundamental principles of LOFAR and deliver training-based scenarios on the most up to date sonars against operational surface and sub-surface military vessels. This training will allow our military partners the opportunity to train on the most up to date equipment, recognise the different signatures and understand how they are generated.

OUTLINE SYLLABUS

- ♦ To understand what DEMON and LOFAR principles are and how to utilise these functions
- ♦ To understand how noise is generated by vessels as they move through the water. It includes being able to understand the origin and to recognise the signature that is generated
- ♦ Calculate blade and shaft information to provide their command teams with signature information and a vessel's speed
- ♦ To understand what the different diesel engine configurations are including calculating Cylinder Firing Rate (CFR), Crankshaft Rate (CSR), Engine Firing Rate (EFR), number of cylinders
- ♦ To recognise Diesel harmonics and reduction ratios in order to understand how a contact can be classified from these signatures
- ♦ To understand how Turbine rates/harmonics/reduction rates work and how they are calculated. These provide classification opportunities to Sonar Analysts and allow a more informed process for briefing command on a contact's signature
- ♦ To allow the Sonar Analyst the ability to recognise additional information and distinguish if these signatures are engine or shaft related, or are unrelated which include signature from auxiliary source, swaths or transients
- ♦ To recognise own weapon and a threat torpedo's signature
- ♦ To analyse a contact's signature in order to make contact classification assessments, to allow the analyst the confidence to brief command with the most relevant information

REMARKS

The correct level of Security Clearance is required by any student attending the course. The students will be exposed to sensitive information throughout their enrollment on the course, and the information delivered should be treated with the correct level of security and scrutiny. Students should be aware that some parts of the course will contain self-taught computer-based training packages (in English Language only).



SECTION 13 OCCUPATIONAL MEDICINE & HEALTH SCIENCE



This section outlines the courses offered by the Royal Navy Medical Service School at the Institute of Naval Medicine for Defence Healthcare Professionals. The courses focus on: diving related injuries and illnesses, encompassing both Military Operational Diving and Recreational Diving; Occupational Health courses for personnel deploying or advising Command on Nuclear and Radiation hazards; the Management of Hand Arm Vibration and Noise Assessments within the workplace.

**Reference No**

204/021

Duration

2 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency2 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – UNDERWATER MEDICINE REFRESHER COURSE

AIM OF COURSE

The primary aim of the course is to refresh and update Service Medical Officers and Civilian Medical Practitioners (CMP) on the medical standards for Military Occupational Diving and Service Recreational Diving.

A secondary objective for the course is to give Medical Officers and CMPs refresher training on:

- ♦ The spectrum of diving-related injuries and illnesses
- ♦ The management principles of diving-related injuries

OUTLINE SYLLABUS

Topics covered include:

- ♦ Medical problems associated with diving (Decompression Illness and Barotrauma)
- ♦ Medical fitness standards for military occupational diving and recreational diving
- ♦ Injuries requiring recompression therapy and Recompression Treatment tables
- ♦ Refresher training with Pulmonary Function Testing standards
- ♦ Submarine Escape and Rescue systems and Submarine Medical Standards

ENTRY STANDARDS

- ♦ Must be a qualified Medical Officer (Service Medical Officer, Civilian Medical Practitioner, Non-MOD employed civilian doctors, Allied Forces Medical Officers)
- ♦ Candidates should be those involved and interested in the medical aspects of diving
- ♦ The course is taught in English. Students should have a solid foundation in communicating in the English language (also see IELTS requirement)

EXAMINATION/QUALIFICATION GAINED

Level I Certificate awarded on successful completion of all aspects of the course including a multiple-choice examination. Level I certificate authorises the graduate to perform diving medical examinations for UK Service Occupational Divers. Successful completion of this course is recognised by the HSE for Authorised Medical Examiner of Divers (AMED) re-qualification.

**Reference No**

204/021

Duration

2 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency2 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – UNDERWATER MEDICINE REFRESHER COURSE

POST COURSE RECOMMENDATIONS

Supervision by, and access to, a Medical Officer with suitable experience in this field of medicine.

REMARKS

Individuals are required to attend this course every 5 years after completing the Standard Underwater Medicine in order to maintain their qualification.

**Reference No**

204/001

Duration

4.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency3 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – STANDARD UW MEDICINE COURSE

AIM OF COURSE

The primary aim of the course is to train Service Medical Officers and Civilian Medical Practitioners (CMP) on the medical standards for Military Occupational Diving and Service Recreational Diving.

A secondary objective for the course is to give Medical Officers and CMPs a working knowledge of:

- ♦ The tasks and equipment associated with the missions of military divers
- ♦ The physics and physiology of diving
- ♦ The spectrum of diving-related injuries and illnesses
- ♦ The management principles of diving-related injuries
- ♦ The basic principles of decompression theory and non-diving hyperbaric medicine
- ♦ A basic understanding of the relevant UK Health and Safety Executive (HSE) regulations influencing UK Military Diving policies and procedures

OUTLINE SYLLABUS

Topics covered include:

- | | |
|---|--|
| ♦ Physics & Physiology of Diving | ♦ Dive Planning and Execution |
| ♦ Physics and Physiology | ♦ Dive Medical how to guide |
| ♦ Breath old Diving | ♦ Submarine Escape and Rescue |
| ♦ Toxicology of Gases | ♦ Marine Envenomation |
| ♦ Principles of Decompression | ♦ Marine Biotoxins |
| ♦ Diving Related Barotrauma | ♦ First Aid Treatment of Snake Bites |
| ♦ ENT Aspects of Underwater Medicine | ♦ Standards for Diving and Hyperbaric Exposure |
| ♦ Manifestations of Decompression Illness | ♦ Physics and physiology of diving |
| ♦ Management of Decompression Illness | ♦ Aspect of underwater medicine |
| ♦ Thermal Aspects of Diving | ♦ Diving related barotrauma |
| ♦ Spirometry and Pulmonary Function Testing | ♦ Fitness to dive |
| ♦ Diving Neurological Exam | ♦ Fitness for recreational diving |
| ♦ INM Fitness for Diving Referral | ♦ Fitness for the submarine service |
| ♦ Fitness for Submarine Service | ♦ Spirometry and PFT |
| ♦ Fitness For Recreational Diving | ♦ Manifestations of decompression illness |
| ♦ Introduction to Commercial Diving | ♦ Management of decompression illness |
| ♦ Fitness for Commercial Diving | ♦ Submarine escape and rescue |
| ♦ Fitness for Service Diving & Return to Diving | |

**Reference No**

204/001

Duration

4.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency3 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – STANDARD UW MEDICINE COURSE

ENTRY STANDARDS

- ♦ Must be a qualified Medical Officer (Service Medical Officer, Civilian Medical Practitioner, Non-MOD employed civilian doctors, Allied Forces Medical Officers)
- ♦ Candidates should be those involved and interested in the medical aspects of diving
- ♦ The course is taught in English. Students should have a high level of English language (see IELTS requirement)

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Level 1 Certificate awarded on successful completion of all aspects of the course including a multiple choice examination
- ♦ Level 1 certificate authorises the graduate to perform diving medical examinations for UK Service Occupational Divers
- ♦ Successful completion of this course is recognised by the Health and Safety Executive (HSE) toward the Authorised Medical Examiner of Divers (AMED) qualification, which requires a separate application to the HSE

POST COURSE RECOMMENDATIONS

Supervision by, and access to, a Medical Officer with suitable experience in this field of medicine.

**Reference No**

204/001

Duration

2.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency6 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – NOISE ASSESSORS' TRG COURSE

**AIM OF COURSE**

This is a 2.5 day certificate course aimed at those likely to be responsible for undertaking basic noise assessments in the workplace in accordance with the Control of Noise at Work Regulations 2005. The course is aimed at all service and civilian personnel, e.g., safety officers, engineers, and occupational hygienists. The aims of the course are two-fold:

- ♦ To enable course delegates to appreciate the nature of noise hazards in the workplace and the need to protect employees from exposure to noise; and
- ♦ To enable delegates to advise and assist employers to meet their legal duties regarding noise exposure, under relevant health and safety law in accordance with current guidance from the Health and Safety Executive

OUTLINE SYLLABUS

Topics covered include:

- ♦ The human ear and damage to hearing
- ♦ Introduction to noise and units of noise
- ♦ Calculation of noise exposure
- ♦ Control of Noise at Work Regulations
- ♦ Use of the sound level meter
- ♦ Basic acoustics and noise control
- ♦ Personal hearing protection
- ♦ The Noise Assessment Record

**Reference No**

204/001

Duration

2.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency6 courses
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – NOISE ASSESSORS' TRG COURSE

The course includes two half day practical sessions in a workshop environment. Delegates are required to bring personal hearing protections, overalls, and safety footwear for the practical sessions.

ENTRY STANDARDS

- ♦ The course is in English. Students should have a high level of English language. IELTS 7
- ♦ Students will need to be numerate and to be able to conduct scientific calculations

EXAMINATIONS/QUALIFICATIONS GAINED

- ♦ Assessment will take the form of a written examination and a practical study. The 1.5 hour written examination has two sections: multiple-choice questions and longer calculation-type questions. The practical requires delegates to conduct a noise assessment and complete a Noise Assessment Record based on the measured noise levels and exposure periods identified
- ♦ Successful delegates will be awarded a 'competent persons' certificate by the Institute of Naval Medicine

**Reference No**

204/001

Duration

5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency1 course
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – CERT MAN OCC EXP HAND TO ARM VIBRATION

AIM OF COURSE

This five-day course seeks to enable course delegates to appreciate the nature of Hand-Arm Vibration hazards in the workplace and the need to protect employees from hand-arm vibration syndrome and to advise and assist employers to meet their legal duties under relevant health and safety law, in accordance with current guidance from the Health and Safety Executive.

- ♦ explain the requirements of current legislation
- ♦ identify situations where HAV hazards exist and assess the risk
- ♦ discuss basic techniques for control of vibration exposure and identify areas where vibration reduction is required
- ♦ assess the effectiveness of vibration control measures
- ♦ evaluate the daily vibration exposures of employees from information about measured vibration magnitudes and work patterns
- ♦ explain the uses and limitations of personal protective equipment

OUTLINE SYLLABUS

Topics covered include:

- | | |
|---|---|
| <ul style="list-style-type: none"> ♦ Basics of vibration ♦ Introduction to vibration ♦ Continuous vibration and shock ♦ Time averaging, r.m.s., peak and peak-to-peak indices ♦ Acceleration, velocity, and displacement | <ul style="list-style-type: none"> ♦ Frequency and frequency weighting ♦ Transmissibility and its frequency dependence, damping, and isolation ♦ Health effects of HAV ♦ Effects on business ♦ Legal duties ♦ A vibration risk management programme |
|---|---|

ENTRY STANDARDS

- ♦ The course is taught in English. Students should have a high level of English language. IELTS 7
- ♦ Candidates will be required to arrange funding for the registration / examination fee charged by the Institute of Acoustics
- ♦ The Institute of Acoustics is committed to an open access policy. The main principle is to admit all who will benefit from the Certificate programmes. However students will need to be numerate and to be able to carry out scientific calculations. If the Certificate is used towards satisfying the educational requirements for Technician membership of the IOA (TechIOA) relevant passes at GCSE level may be necessary also



Reference No

204/001

Duration

5 days

Location

Institute of Naval
Medicine

IELTS

7

Frequency

1 course
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – CERT MAN OCC EXP HAND TO ARM VIBRATION

EXAMINATIONS/QUALIFICATIONS GAINED

Successful candidates will be awarded a certificate by the accredited body (Institute of Acoustics).

Assessment in two parts:

- ♦ Written examination
- ♦ Case study

**Reference No**

204/001

Duration

4.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency1 course
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – TRI- SERVICE RADIATION MED CSE (TSRMC)

**AIM OF COURSE**

These courses are designed for Service Medical Officers and Civilian Medical Practitioners training to cover the full spectrum of military medical care.

OUTLINE SYLLABUS

Topics covered include:

- ♦ Radiation monitoring
- ♦ Personal Dosimetry
- ♦ Non-Ionising Radiation
- ♦ Control of Ionising Radiations
- ♦ Radiobiology
- ♦ Early Deterministic Effects
- ♦ Management of Early Effects
- ♦ Later Deterministic Effects
- ♦ Stochastic effects – Cancer
- ♦ Stochastic effects – Hereditary effects
- ♦ Internal Contamination
- ♦ Whole Body Monitor and Bioassays
- ♦ Control of IR
- ♦ Psychological Effects of Ionising Radiation
- ♦ Reactors
- ♦ Submarine Reactor Accident Response Planning
- ♦ Medical Aspects of Reactor Accident Plans
- ♦ Triage
- ♦ Decontamination
- ♦ Military Operational and Terrorist threats
- ♦ Nuclear Weapon design, hazard, and effects
- ♦ Nuclear and radiological accidents
- ♦ Fitness for work with IR

**Reference No**

204/001

Duration

4.5 days

LocationInstitute of Naval
Medicine**IELTS**

7

Frequency1 course
per year

OCCUPATIONAL MEDICINE & HEALTH SCIENCE – TRI- SERVICE RADIATION MED CSE (TSRMC)

ENTRY STANDARDS

- ♦ The course is taught in English. Students should have a high level of English language. IELTS 7
- ♦ It is recommended for those involved in Nuclear Emergency Response arrangements, those with key roles in managing CBRN threats, specialists in Occupational Health and those deploying or advising Command where operational threat assessments dictate could include radioactive or nuclear hazards
- ♦ Be a qualified doctor or senior allied healthcare professional

EXAMINATIONS/QUALIFICATIONS GAINED

The course fulfils the training syllabus required by the UK Health and Safety Executive for an application to become an Appointed Doctor under the Ionising Radiation Regulations 2017 (But applicants should note that other requirements are made by the HSE to undertake such a role including being a registered medical practitioner with a diploma in Occupational Health).

Assessment takes the form of an MCQ examination. Successful delegates are awarded a 'certificate of knowledge' by the Institute of Naval Medicine. Others, who have attended the whole course are awarded a 'certificate of attendance'.