



**What's New in Training**

**Captain's Call**

**Submarine On Board Training**

As we usher in the New Year, Submarine Learning Center is positioned to assist your training needs ashore (schoolhouses) and afloat (SOBT).

Submarine Force Training Mission Area Chairmen and their teams have several products to bring to your attention as well as several current SOBT initiatives to provide Onboard Distance Support and to reduce the SOBT training catalog.

1. A SOBT and NUWC representative will be conducting onboard grooms for selected boats on SOBT products and installation processes and procedures. This should make it easier to access and utilize SOBT material. SLC SOBT will groom 25 to 30 boats within the next 3 years until we have the Afloat Integrated Learning Environment (AILE) in place to deliver our on board training materials electronically.
2. SOBT has over 500

products in the catalog to support your training needs. Topics vary from Basic Submarine Quals to Basic Engineering Quals. SOBT's commitment is to maintain current and relevant training material and we seek your feedback. Request you go to SOBT website and submit a feedback report, letting SOBT know what is not current, relevant, required or desired as a training product.

Keep the Feedback coming. We are always happy to hear from the fleet and support activities. We are here to serve you with the best training products for submarine force readiness.  
 Captain Hass Moyer  
 Submarine Learning Center



**Basic Submarine Mobility**

The Navy is nearing completion of a \$13.2 million submarine escape training facility, being built at Naval Submarine School, Groton, CT. The facility, when opened for student training later this year, will be used to train all prospective and current submariners for escape and rescue from a disabled submarine. The facility's configuration includes compatibility with the Navy's

Seawolf, Los Angeles, and Virginia class submarines. The training facility will familiarize submariners with submarine escape and rescue equipment and procedures, including time in the water for students to gain confidence in the submarine escape immersion equipment (SEIE) suits and rafts currently installed or being installed in all US submarines. The two-day training course will culminate in an escape from a realistic submarine escape trunk under a 30-foot column of water.  
 LT Bob Swanson  
 NAVSUBSCOL  
 Basic Mobility AO

**Bridge Resource Management Course of Instruction**

As the Holiday stand-down ends, the Bridge Resource Management (BRM) course is nearing its final stages of completion. The course was convened twice in August at Submarine Learning Facility,

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Suggested Distribution of Copies  
 CO, XO and COB (1 copy)

This distribution of the Submarine Learning Center Newsletter will ensure that everyone will be aware of new products available for training needs.

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Norfolk for USS MONTPELIER (SSN 765) and USS NORFOLK (SSN 714). These convenings challenged the boats both in a classroom environment and in a series of complex scenarios in the Submarine Piloting and Navigation (SPAN) Trainer. Three Greybeards provided the facilitation. The course has gone through final piloting, and Greybeard "Train-the-Trainers" was also accomplished during these training sessions. Although a minor revision is underway to better integrate topics using a single Fleet Case Study, expect to see a "Letter of Promulgation" from Submarine Learning Center by February 2008. For more specific information on lectures, scenario data, or to schedule the course, please contact LT Christopher Mendoza at Submarine Learning Facility Norfolk.

LT Christopher Mendoza  
SLF Norfolk  
Mariner Skills Mission Chair AO



### SSN COMMS Training

The Submarine Communication Support System Multi-Reconfigurable Training System (SCSS MRTS) has hit the street at all the SSN learning sites (less Guam). This state-of-the-art trainer brings communication training to a new level. Not only does it allow crews to perform basic system lineup and functionality, it also allows them to conduct casualty and emergency communication procedures and train on recent lessons learned. Crews can emulate a full spectrum of scenarios including communications during transit to communicating within a battle group in a completely different part of the world. Communications skills required by the Continuing Training Manual can be satisfied in this new trainer, and radio operators and teams will greatly benefit from this interactive training tool readily available at every training site CONUS. The SCSS MRTS is one of many tools available to enlisted and officer alike to improve communications

proficiency in the COMMS mission area and prepare for challenging forward deployed missions.

SLC is also working to bring CSRR MRTS on-line to support Virginia and Seawolf Class SSN's...keep watch for this new trainer as well.

LCDR Chris Delinsky  
TTF Bangor  
C4I Mission Chair AO

### Training for ASW

ASW continues to be a core competency area for submarines. Currently there is a new draft publication, NTTP 3-21.23 (JAN 08) Submarine Tracking Manual, that will be superseding the current edition. This new publication incorporates the HFA Tracking Manual (TMFZ 3-21.23.07-07), a new chapter discussing close-in tactical control, and changes to the chapters discussing tracking and collision avoidance. Additionally a new SOBT product, SS Approach and Attack Training, was released to the Fleet in the SOBT December product distribution of 2007. This product is targeted to Officers and Enlisted personnel to help develop their knowledge and skills in this area.

Training for this mission area is conducted in multiple phases; SOBC, SOAC, SCC, PDT, at sea, and in Attack Centers. Ships can schedule training sessions in the Attack Centers to develop skills and to maintain proficiency during extended in-port periods.

LT Jeremiah J. Fulton  
NAVSUBSCOL  
ASW Mission Chair AO

### Scope of Certification Training In Development

There has been a lot of recent training developments in the Naval Special Warfare (NSW) arena. The advent of several new platforms developed specifically to support NSW operations has brought with it new training challenges. In the past, NSW submarine platforms were home ported in specific areas, and these areas built in the expertise required for the maintenance and



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quality assurance required to support these unique platforms, including Scope of Certification (SOC). However, the new generation of NSW platforms will be spread out among the various submarine home ports. This change has resulted in a need for a more robust training in important areas, such as SOC. With the SSGN class certifying and deploying and the Virginia class maturing, a gap exists that needs to be filled in the training available for SOC.

A computer based training tool has been developed by the Fleet Maintenance Support Branch to help fill this level of knowledge issue. It is currently being reviewed for technical accuracy and, once approved, will be evaluated for the best method of delivery to the fleet. The goal of this training product, coupled with the lessons learned that are being developed by the new crews having to deal with SOC, is to provide an appropriate level of training while minimizing the impact to operations. When approved, it will be a great addition to any boat's training tool box.

LT Gabriel Alvillar  
TTF Bangor  
NSW AO

### **ADCAP Post Launch Trainer (APLT)**

Shipmates, let me start by introducing myself. I am FTC (SS) Travis Fowler, the Fire Control Project Manager here at SOBT. My goal during my tour at SOBT is to increase the variety of training products available to the shipboard FT, not only to make training more interesting, and affective, but also easier to conduct. The more ready-made training products that are available, the more time you will save by not having to prepare topics yourself.

There are two versions of ADCAP Post Launch Trainer (APLT) available. APLT ver 5.0 for MK-1, and BSY-1 Fire control Systems; and SS APLT BYG-1 Block 1C for BYG-1, and Block 1C Fire Control Systems. Both include Measure of Effectiveness (MOE) scenarios that allow skills to be graded and tracked for your training records. Also, there is the SS CBOT TRE

Attributes Assessment Capability product (CBOT). CBOT allows for individual or team training on Fire Control operations without having to use the tactical system, or an Attack Center. One of the newer products available is SS Fusion Plot Employment. This product takes the student from very basic Fusion Plot operations through advanced set-up of plot functions.

Feel free to visit the SOBT web page at <https://www.netc.navy.mil/sobt> to see what other products are available, and keep in mind that just because a system may not be on your boat, there may be a product that could help your junior sailor going up for advancement. If you have any feedback for improvements to an existing product, or an idea for a new product, feel free to send me an email.

FTC (SS) Travis Fowler  
SOBT  
Fire Control Project Manager



### **Training for IO**

IO continues to be a developing mission area. Currently there is a new draft publication NTTP 3-13.10 (AUG07) Submarine Electronic Warfare that will be superseding NTTP 3-13.10 (Rev A) Submarine Electronic Warfare and TMFZ 3-13.12.08-06 Submarine Electronic Attack. This new publication incorporates guidance developed from recent TACDEVEX and provides information on all aspects of Electronic Warfare. Training for this mission area is mostly conducted during the install and certification process. There is additional Wardroom training provided during PDT upon request. For additional practical training, any SMMTT can be use to build ISR skills which directly translate to the requisite skills needed to accomplish an IO mission.

LT Gregg A. Moody  
NAVSUBSCOL  
IO Mission Chair AO



## SS Rest of World Visual



### Recognition

The SS Rest of World Visual Recognition is a good tool for Officers that are qualified Officer of the Deck, as well as any other watchstanders whose duties require proficiency identifying potential threat platforms. It is structured to present you with updated recognition information of Anti-Submarine platforms in different regions of the world. You can select the region of interest to practice your recognition prior to deploying in those areas. The information contained in this course is derived from various sources, including the Office of Naval Intelligence (ONI). ROW Visual Recognition requires you to evaluate the platforms and apply judgment in recognizing appropriate threat platforms. A section on merchant vessels is also included for practice recognition.

Paul Knieser

SOBT

Wardroom Project Manager



## SS JO Rules of

### Engagement Volume 1

The SS JO Rules of Engagement Volume 1 IMI is designed to provide training for Officer of the Decks and any other Watchstanders whose duties require knowledge of the Rules of Engagement and how they apply to various tactical situations. This Rules of Engagement IMI is structured to present you with operational scenarios as you take the roll as the submarine Officer of the Deck, who will be required to make decisions normally made by the Commanding Officer. The scenarios are designed to require you to apply the Rules of Engagement to make the difficult decision of whether or not to engage the target. You are placed in an initial tactical situation and are expected to analyze the incoming reports and indications to determine an appropriate course of action. This training approach implements a hypothesis testing instructional strategy, used when a training task is related to decision making or deductive/inductive reasoning. The overall goal of this ICW is to increase your

ability to understand the tactical situation and rapidly apply the Rules of Engagement. Since the scenarios will include data from actual at-sea operations, the trainee is faced with realistic data; available information is sometimes sparse and incomplete, prompting the trainee to think through the tactical situation. Current tactical doctrine, orders, personal experience, and mission objectives provide the basis to be applied to the tactical situation.

**NOTE:** This training IMI will be based on U.S. Rules of Engagement. Application of Allied Rules of Engagement may result in a different outcome.

This IMI consists of a common introduction, multiple independent short contact encounter scenarios and an overall summary. The introduction will introduce you to the topic, present the lesson objectives, and provide an overview of how to navigate through the courseware. Each contact encounter scenario will consist of three distinct sections.

- Section One, Initial Tactical Situation, will provide you with the pertinent tactical information required to understand the situation.
- Section Two, Rules of Engagement Application, further develops the tactical situation and allows you to react and experience the consequences of your actions.
- Section Three, Post-Mission Debrief, allows you to compare your view of the tactical situation and the applicability of the Rules of Engagement with those of the courseware Theater Commander.

Paul Kneiser

SOBT

Wardroom Project Manager

## ORM Mission Area

ORM (operational risk management) is now better integrated into the submarine training pipeline, from basic ORM at the junior level in BESS to advanced ORM and operational planning at the SCC.

Submarine School is now teaching an ORM A&I



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(Application and Integration) course during SOAC (Submarine Officer Advanced Course). Once certified by the Navy Safety Center, this course meets the requirement of becoming an ORM instructor for a Command. Each command is required to have at least one senior enlisted and department head certified as ORM instructors by OPNAVINST 3500.39B. This should assist boats in meeting the requirements without the need of sending key personal away from the Command for two days of training.

CSF 3500.23 Operational Planning and Risk Management instruction has been integrated into the SOM (Submarine Operations Manual). OPNAVINST 3500.39B remains the ORM instruction with operational planning referencing this document for the ORM portions of operational planning.

LT Christopher Mendoza

SLF Norfolk

Mariner Skills Mission Chair AO

## Strike Warfare Training World

A new Submarine Strike Warfare Manual is currently in the approval process. This new manual is in electronic format with hyperlinked information throughout, which will allow users to quickly identify requirements and procedures. A renewed emphasis has been placed on short-notice tasking, training strike teams to develop and execute tasking within a five minute time window. Launch Platform Mission Planning proficiency has become the focus of short-notice tasking for TTWCS capable platforms, while the rapid-plan-and-shoot concept is practiced on older platforms.

Currently training sites provide engagement planning, post launch, and communication simulation for all builds of submarine fire control systems. The Legacy SMMTT trainers provide the capability for the trainer to communicate with outside facilities. With the installation of the Navy Continuous Training Environment, both SMMTT-3 and Legacy SMMTT will be able to participate in Big Navy strike exercises around the world.

LT Paul A. Will

NAVSUBSCOL

STW Mission Chair AO

## SUW in High Definition

With the arrival of the Submarine Multi-Mission Team Trainer (SMMTT), the fidelity of Surface Warfare (SUW) training in the schoolhouses has taken significant steps forward. From the periscope, which provides accurate simulation of the capabilities of the Type 18 periscope, to better emulation of the ESM environment to the most realistic acoustics modeling available, ships are now able to train on highly challenging SUW scenarios. In fact, the SMMTT has become a part of the Tactical Readiness Evaluation, for the SUW portion of the exam. This allows the TRE team to provide much more robust scenarios than is possible using live targets.

Submarine Force Training Tool Box. To support the SUW mission area requirements (SU01 to SU18), the training tool box is invaluable. An extensive listing of tactical publications, courses, team trainers, and SOBT products is provided to assist in the maintenance of proficiency in this critical submarine mission area.

LCDR Brian Reed

SLC DET SD

IC AO

## Submarine Anti-Diesel ASW

The Submarine Anti-Diesel ASW course is designed to provide advanced education and training to submarine wardrooms and submarine attack center supervisors on the general characteristics, capabilities, limitations, operations, and tactics of modern diesel submarines operated by the rest of the world. The curriculum promotes understanding of the SSK threat at the SSN command level. It is designed to provide the students with the prerequisite knowledge required to properly analyze country specific intelligence and threat data, and to use this data to plan for an effective SSK search in theater, at sea. Students should also understand the proper techniques for approach and attack on a modern SSK.

Paul Knieser

SOBT

Wardroom Project Manager



## Submarine Communications

Recently distributed Submarine Communications related SOBT courses include the following:

### SS Voice Communications

(DODUSNSLCSOBT\_97075 Version 1.10): This course provides education and training to Communications Division Electronics Technicians and Junior Officer personnel on the operation and employment of non-secure and secure voice communications. It includes knowledge elements on specific voice communications operations including the requirements for Authentication methods, Beadwindow, Uncle Joe, and Guerilla procedures. This courseware promotes understanding of the elements needed to properly operate non-secure and secure voice communications circuits.

### SS EHF Communications Overview and Operational Procedures Phase 2

(DODUSNSLCSOBT\_06021 Version 1.00): This course is a follow on to Phase 1 (DODUSNSLCSOBT\_05002 Version 1.00) and provides education and training to Communications Division Electronic Technicians on the operation and employment of the EHF SATCOM Follow-On-Terminal (FOT). This course gives the student knowledge on specific FOT operations including displays, controls and indicators, and modes of operation of the FOT. The Phase 1 and Phase 2 courses provide training for both LDR and MDR operations. A future course (Phase 3) will be developed and distributed to provided further training and will include operation of HDR.

### SS OTAR and OTAT Procedures

(DODUSNSLCSOBT\_97064 Version 1.10): This course provides education and training to Communications Division Electronics Technicians on the procedures to perform Over the Air Rekey (OTAR) and Over the Air Transfer (OTAT). It includes equipment descriptions, operating procedures, and policies for use and protection of electronic key material.

## SS AN/BRA-24 Buoyant Cable Antenna Handling System

(DODUSNSLCSOBT\_06020): This course provides education and training to Submarine enlisted personnel who are required to operate and maintain the AN/BRA-24 Buoyant Cable Antenna Handling System. This training provides a system description and includes information concerning all system variations installed on different submarine platforms. It provides a detailed description and training on major components, capabilities, maintenance, and operational procedures of the AN/BRA-24 Buoyant Cable Antenna Handling System.

Mr. Terry Harding

SOBT

Submarine Communications Project Manager

## SOBT Training Products Catalog

Navigate to the SOBT website at <https://www.netc.navy.mil/sobt> to find out about the newest technical updates and FAQ's, as well as to familiarize yourself with the many products offered for Submarine On Board training,

The catalog is updated on a monthly basis, and a catalog specific to each boat class' training products allows for easy comparisons to on board inventory.

New and updated SOBT courseware is distributed to the fleet on a monthly basis. Please feel free to contact SOBT Admin if you have any questions.

SOBT Administration



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