

All On Board



Fleet Training

December 2011 Vol. 4

Welcome

Welcome to this edition of the SOBT Quarterly Newsletter, your source for what's new with SOBT training. Recently the SEAWARE Learning Management System (LMS), developed by Naval Undersea Warfare Center (NUWC), was installed for testing purposes on four submarines. Feedback from these test platforms has already been coming in, with suggestions for improvements to this system. So what is this Seaware Learning Management System and what does it do for me? It is a SUBLAN-based tool that

provides access to training products, much like the SOBT web page on your SUBLAN does now. However, because it is designed to the standards used to develop electronic courseware, it is able to do much more than just open training products. It allows Sailors to bookmark a course being taken, and return to the same spot at a later time or day. It tracks completion and grades, so that they are automatically fed to the Fleet Training and Management Planning System (FLTMPS) program, eliminating the need to copy certificates and send messages. It allows division and department supervisors to assign training, or blocks of training to Sailors then help these supervisors evaluate Sailor performance and progress towards completing assigned SOBT products.

Seaware is fully compliant with government Information Assurance (IA) policies, and provides the Navy with the ability to collect feedback on the quality of the SOBT products, as well as monitor which products are the most and least popular. Collecting this information will enable the Navy to invest its resources in the products that are most beneficial to meeting the needs of our Sailors. Also, the SOBT feedback form is easy to use

and integrated into SEAWARE, making it more convenient and accessible.

Seaware is another step in making required training easier to accomplish for our Sailors.

Commanding Officer
Submarine Learning Center



Director's Note

SOBT and the Design For Undersea Warfare

With the Design For Undersea Warfare (DUSW) recently issued, the role and priorities of the submarine force in our changing times is very clearly defined. If you have not read this document, you can obtain it from the COM-SUBFOR website.

The DUSW identifies the unchanging fact that the continued success of the submarine depends on maintaining high standards of technical knowledge. The SOBT program has developed many products specifically designed to enhance a Sailor's knowledge of the submarine's equipment and operation during qualification.

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These professionally developed products are also very effective as a review tool later.

The DUSW emphasizes that the submarine force must be ready to deploy on short notice to execute a multitude of missions at a high level of efficiency. To achieve this end, the force must work to obtain a level loaded strategy for training on all force competencies in order to avoid lapses in proficiency from focused training for periodic inspections and assessments. There are numerous SOBT simulators that can be used to maintain this level loaded training and improve specific skills while underway. These simulators include the AD-CAP Post Launch Trainer, CBOT, PC Periscope, SBOT, SUBSKILLSNET, ENGSKILLSNET, Ship Control Simulator, etc. Other traditional training products, including Anti-Diesel tactics, ASW tracking, and BYG-1 TMA plots to name just a few, can also be used to hone watchstander skills at sea. Effective use of these training aids can sustain a higher level of readiness across all areas of operations and more quickly ramp up watchteam performance prior to command events like PDT, TRE, ORSE, etc.

In conclusion, SOBT can and should play a role in maintaining the core competencies of the crew at sea. Effective use of SOBT products will translate to higher performance and more efficient use of time spent in shore-based trainers. As the SOBT Director, I am very interested in fleet feedback on creative ways to use on board training products in support of the principles in the DUSW. I encourage each of you to "think outside of the box." SOBT usage should enhance your crew performance and make your jobs easier. You can provide feedback via the SOBT Website at <https://www.netc.navy.mil/sobt/web/> or by contacting a SOBT member listed on the last page of this newsletter.

SOBT Director

On the Cover:

USS Alexandria surfacing through the ice.
US Navy photo



Wardroom Training

The Ever-Evolving Contact Manager

As a Junior Officer, your major challenge (in addition to learning the engineering plant, standing duty/watch, managing a division, working on qualifications, learning warfare techniques, and assisting in countless other tasks) is to become a proficient contact manager. Not only do you have to develop a working knowledge of sensors (i.e. sonar, fire control, radar, ESM, visual, etc.), but you also need to be able to synthesize the outputs of these various sensors to provide thoughtful information and recommendations to the Officer of the Deck. This is not a skill that you can simply master once, like riding a bicycle. Contact management must be repeatedly revisited, ideally in a variety of settings like JO courses, experience on the boat, trainers, and even SOBT products.

There are a number of current SOBT products which can aid in honing a contact manager's skills. The following courses offer training into the various sensors and roles employed by the Contact Manager:

- ◆ Acoustic Signal Recognition (SONAR) (DODUSNSLCSOBT_04110)
- ◆ AN/BQQ-10 Multi-Sensor Display Operations for the OOD (DODUSNSLCSOBT_07048)
- ◆ ASW Tracking DODUSNSLCSOBT_05081, BYG-1 TMA Plots (DODUSNSLCSOBT_07029)
- ◆ Contact Coordinator (DODUSNSLCSOBT_98115)
- ◆ FTOW CCS AN/BYG-1 (DODUSNSLCSOBT_02038)
- ◆ Fusion Plot Employment (DODUSNSLCSOBT_05103)
- ◆ JO Sonar (DODUSNSLCSOBT_00021)
- ◆ Maneuvering Board (DODUSNSLCSOBT_00041)
- ◆ Mental TMA Techniques (DODUSNSLCSOBT_96079)
- ◆ PNB Theory (DODUSNSLCSOBT_06031)
- ◆ Radar Navigation and Contact Management (DODUSNSLCSOBT_04029)
- ◆ Rules of the Nautical Road (DODUSNSLCSOBT_03171)
- ◆ Sonar Tactical Decision Aid (STDA) (DODUSNSLCSOBT_06032)

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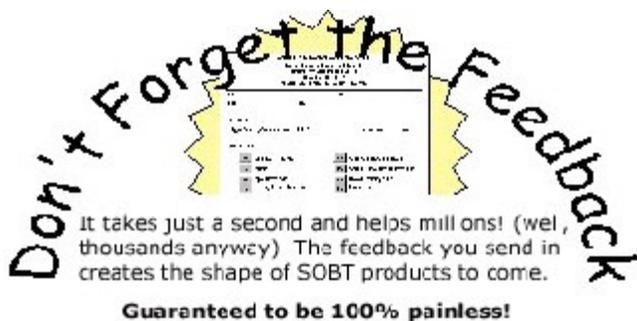
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- ◆ Towed Array TMA Techniques (DODUSNSLCSOBT_96002)
 - ◆ VLF(A) Tracking (DODUSNSLCSOBT_96032)
- The below products offer insight into the decision-making process and provide lessons learned to incorporate into your toolbox:
- ◆ Collision Presentations Vol 1 (DODUSNSLCSOBT_06030)
 - ◆ Collision Presentations Vol 2 (DODUSNSLCSOBT_08037)
 - ◆ Grounding Presentations Vol 1 (DODUSNSLCSOBT_06033)
 - ◆ The Aftermath – Equipment Damage Lessons (DODUSNSLCSOBT_05114)
 - ◆ The Aftermath – Mass Casualty Lessons Learned (DODUSNSLCSOBT_05113)
 - ◆ USS Albany (SSN 753) Grounding (DODUSNSLCSOBT_08024)
 - ◆ USS Hartford (SSN 768) Collision (DODUSNSLCSOBT_10001)
 - ◆ USS Minneapolis St. Paul (SSN 708) Men Overboard (DODUSNSLCSOBT_02036)
 - ◆ USS Pasadena (SSN 752) Men Overboard (DODUSNSLCSOBT_05156)

As the Submarine Force redevelops the role of the Contact Manager, SOBT is also developing a new product in both to aid in your qualification as a Contact Manager and practice your skills. This new product will be available next summer.

As always, SOBT strives to provide up-to-date and relevant products to support qualification and training in the fleet. If you have any feedback on these products, let us know through your SOBT Manager so we can continue to help our sailors along.

SLC N71, Officer Training



Incidents and Lessons Learned

Tragedies

September 11, 2011 was the tenth anniversary of the most horrific terrorist attack on United States soil. Because of these attacks, American's have forever altered their way of life. We now conduct our daily activities with a heightened sense of awareness and caution. Today's world requires us to maintain constant vigilance; for submariners, this also includes constant vigilance when operating at sea. Although it has been ten years since 9/11 and a couple of years since the last significant submarine incident, we are all reminded that we can never afford to be complacent.

So while the country reflects back to 9/11, it is an opportune time for submariners to review the submarine incidents from the past as well. A summary of these incidents, including JAG findings and lessons learned, are available on three separate SOBT products. Collisions Volume 1 DODUSNSLCSOBT_06030 contains collisions from the 80s to early 2000s. Collisions Volume 2 DODUSNSLCSOBT_08037 has more recent collisions and all submarine groundings are covered in Groundings Volume 1 DODUSNSLCSOBT_06033.

All of these products are designed for group seminars but are also suitable for individual training. They present each incident in a similar format: the events leading up to the incident, a chronological summary of the incident itself and events immediately following, findings of fact, and lessons learned. The learner or group leader may select individual incidents for specific training or review the products in their entirety. Hopefully you have already reviewed these products several times, but continuous training and vigilance is crucial for mission success. As the submarine force and our entire nation have learned the hard way, complacency is the enemy.

Strategic Weapons/Wardroom Support



Weapons

Fellow Weaponers,

Here at SOBT we create numerous products to cover a wide range of topics. Within the topics, the training is developed for a beginner, and continues up to the more advanced Sailor. The courses that are developed for the weapons area of interest are no exception.

Each class of Submarine has its own Basic Submarine Qualifications (BSQ) products. The topics can range from the Torpedo Tube systems, to the Weapons that the ships employ, and also any means that the weapons are loaded or transferred to the ship. A highlight of the weapons handling courses is the SSBN Mk 48 ADCAP Weapons Handling Procedures, DODUSNSLCSOBT_03072. This product covers the process of a weapons shipping system setup, operational test, the shipping evolution and tube loading. For a more basic look at the weapons system and the weapons themselves, SOBT has a BSQ line of products that will give the learner an introduction to the torpedo tube systems and how they apply to the end user. These products are great for the newly reporting junior personnel to get the required information. The training, along with the actual hand walking of the system, prepares the Sailor for obtaining the required system checkout. Even if you happen to be a senior Sailor that is rolling back to sea, these products provide an excellent means to review.

In closing, remember that fleet input is the greatest way to ensure that the SOBT process is developing current and relevant material. Thank you for your time and have a great Navy Day!

TM Weapons/Force Protection Project Manager

Topside Safety

The Topside Safety course (DODUSNSLCSOBT_05048) is a very helpful tool for the fleet. This interactive course is designed to train our junior Sailors to identify topside hazards and the appropriate precautions used to help minimize accidents. This product also provides location and physical and functional descriptions on all of the equipment that is used topside, including Personal Protective Equipment (PPE), subsafety equipment, and man overboard equipment.

The Topside Safety course has eight different lessons. The first lesson is an overview and introduction to the course. Lesson 2 will help Sailors to identify the hazardous areas that are present topside and how to minimize any accidents that could potentially occur, such as wearing a hardhat and avoiding areas where crane operations are occurring. Lesson 3 of Topside Safety is where Sailors will find the characteristics and uses about the subsafety equipment that submarines use topside, such as the lifelines, the safety track, and the Jacobs ladder. Lesson 4 has information on PPE and the proper use of this equipment, such as how to properly use the harness, lanyard, and deck traveler. Lesson 5 focuses on the characteristics and use of man overboard equipment, such as the heaving line and life rings. Lesson 6 provides proper topside procedures, including the correct use of the stopper chain and proper deck traveler procedures. Lesson 7 discusses some preventive maintenance requirements, and explains the importance of preventive maintenance used to keep the topside equipment operational and safe for use. Lesson 8 is about sail safety, it will help explain the principles and procedures that are in place to ensure safety and minimize accidents when dealing with sail safety.

Topside Safety is a great training tool, it can be used to train new personnel, or it can be used as a familiarization tool to help Sailors stay safe during topside operations both in port and out to sea.

This product is designed to help Sailors attain basic knowledge of submarine systems and watchstations. As long as we continue to receive great and much appreciated feedback from the fleet, we can continue to produce effective and helpful training for the future. Please feel free to contact us if you have any ideas on a new product or how to improve a current one.

Engineering/Auxiliary Systems Project Manager

VA Class Product Updates

While updating Diesel Generator Combined Maintenance Volumes 1-4 (DODUSNSLCSOBT_05053-05056), which will be available with the March 2012 Distribution, it was noted that there are a few Virginia Class products that do not have SOBT



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serial numbers and they were not distributed to the fleet with the original distribution. Here is a list of the courses:

- ◆ Diesel Operations and Basic Maintenance
- ◆ Air Conditioning Combined Maintenance
- ◆ Diesel Advance Maintenance
- ◆ ILPE Electrical
- ◆ ILPE Mechanical

Currently, the first two of the above listed courses are being revised and the plan is to have them on the March 2012 Distribution. If there are any other Virginia class courses out there that you know of that may have similar issues, please inform SOBT. Feedback forms are on all SOBT product CDs.

The following courses were updated and distributed in the September 2011 distribution:

- ◆ Tanks and Compartments and Ships Characteristics (DODUSNSLCSOBT_04010)
- ◆ Potable Water System (DODUSNSLCSOBT_01060)
- ◆ Service Air System (DODUSNSLCSOBT_03022)
- ◆ Primary/ Secondary MPDT (DODUSNSLCSOBT_01062)

All of these have had significant upgrades from the old shipyard photos and graphics, in fact many have been updated with 3D style graphics to improve understanding of these systems.

SSN 774 Class Project Manager

Fire Control

SOBT is considering developing targeted training products using short and to-the-point videos. These products will fill a training gap uncovered by the repetitive comments noted by both trainer reports and TRE comments associated with system employment. Targeted training video length will be one to four minutes. The focal points of these videos will be the key aspects of system employment, why they are important, and how they affect solution development. The overall intent of this training will be to provide the best fleet experience to enhance the training our submarine FT and STS divisions conduct.

What are some areas of training you think could be improved by having quick reference videos? How could you simplify training new personnel on your Fire Control System or Sonar System? Think about some of the recent comments you've heard and how a "targeted video" might help your current and future divisional members become and remain the best operators. When you were qualifying, was there any topic you could have mastered sooner if it were presented better?

*Final Notes - Your inputs will drive the content! Simply put, the more feedback SOBT receives, the sooner we can put these videos to the street! We realize that there are several variants of Fire Control and Sonar Systems out there and will tailor these videos to meet fleet needs. I am looking forward to your input!

FT SOBT Project Manager



SSN 688 and 21 Class Basic Submarine Qualification Products

SOBT has completed four Ship's qualification products that were previously unavailable due to a variety of issues. These products will be distributed in the next SOBT distribution on the NUWC hard drive.

- ◆ SSN 688 BSQ TDU and Trash Compactor: DODUSNSLCSOBT_97043
- ◆ SSN 688 BSQ Scrubbers and Burners: DODUSNSLCSOBT_97028
- ◆ SSN 688 BSQ Ship's Stores Refrigeration: DODUSNSLCSOBT_97044
- ◆ SSN 688 BSQ Ship's Service Air System: DODUSNSLCSOBT_97025

Each product will help provide those individuals qualifying in Submarines the basic knowledge of the system, purpose, and components to aid in their qualification process.

SOBT MHM&E/Safety/Seawolf Qual Program Manager