

APPENDIX B02

Surface Warfare Officers School Command (SWOSCOLCOM) NSS/LCS Instructors

1. General Scope. This Statement of Work (SOW) Appendix B02 establishes and defines the tasks, subtasks, scheduling and administrative support services for training U.S. Navy Surface Warfare Officers and Enlisted bridge navigation watch standers participating in the SWOSCOLCOM delivered courses of instruction (COI)s listed in paragraph 3.1.c. These services are provided at Surface Warfare Officers School Command (SWOSCOLCOM) building 1362, Naval Station, Newport, RI.

In addition, this appendix also specifies the requirements and scheduling authority for the Littoral Combat Ship (LCS) 1 and 2 Bridge Simulators to support LCS Officer of the Deck (OOD) and Junior Officer of the Deck (JOOD) Navigation Seamanship and Ship-Handling training at the Surface Warfare Officers School Command (SWOSCOLCOM) Learning Site, and the LCS Training Facility (LTF), Building 3304, Naval Station, San Diego, CA and LTF Mayport Building (TBD), Naval Station Mayport, FL.

As required, LCS OOD and JOOD CIS may be used to temporarily augment other LCS learning sites to address course schedule and student throughput requirements with travel funded separately. SWOSCOLCOM is the Course Curriculum Model Manager (C2M2) and scheduling authority for this course of instruction.

1.1 Instructor/Operator Services. Instructor/Operator services shall provide classroom and laboratory instruction as well as assessment of competence in NSS subject areas further defined in section 3 of this statement of work. Instructor/Operator personnel shall ensure maximum utilization of SWOSCOLCOM furnished simulator and other computer-based training systems as training tools in providing NSS Instructor/Operator Services. Instructor/Operator personnel must be capable of effectively operating SWOSCOLCOM furnished simulators and other computer-based training systems as training tools simultaneous with the provision of NSS instruction and competency assessment. Each Contractor provided NSS Instructor/Operator shall have the qualifications defined in paragraph 2, and shall also be capable of performing the tasks defined in paragraph 4.5. All experiential exercises delivered to the Surface Warfare Officer students must be of the highest fidelity possible while yielding maximum learning and retention benefits. SWOSCOLCOM is the Course Curriculum Model Manager (C2M2) and scheduling authority for NSS courses of instruction.

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1.1.1 The Contractor shall provide SWOSCOLCOM, with training in the following subjects: U.S. Coast Guard (USCG) approved Bridge Resource Management, RADAR Observer, Automatic RADAR Plotting Aids (ARPA), Electronic Chart Display and Information Systems (ECDIS), Train the Trainer and Train the Simulator.

1.1.2 NSS Instructor/Operator services shall result in SWOSCOLCOM graduates who have acquired the requisite NSS knowledge and achieved core competencies in accordance with the Navigation, Seamanship and Shiphandling Training Requirements Document (NSS TRD) to serve effectively as qualified Commanding Officers, Executive Officers, Department Heads, Division Officers, Ship Conning Officers, Underway Officers of the Deck, Navigators, Underway Junior Officers of the Deck and Piloting personnel, as appropriate. Specific course and student performance criteria will be provided by SWOSCOLCOM Director of Fleet Training, N72.

1.2 Scheduling and Administration Support Services. Scheduling and administrative support services required to facilitate provision of all services specified in this SOW appendix shall be provided to the government and coordinated between the SWOSCOLCOM N72 Fleet Training Department staff and a designated lead contractor NSS Instructor/Operator. This coordination shall be a collateral function of the lead NSS CI, and occur on a minimum of a weekly basis to ensure that all training courses and requirements are adequately staffed and supportable.

2. NSS Instructor/Operator Services Basic Requirements

2.1 Instructor/Operator Personnel Qualifications. Services shall be provided with a balance between Master Mariners and former Navy Commanding Officers that offer a blended solution to deliver proper training perspective which reflects the commercial and military mariners' management of Navigation and Shiphandling techniques. A blended approach is required to provide the commercial and military management approach to Navigation and Seamanship that is vital for the Naval Officer to understand the interaction of all vessels in high traffic situation.

2.1.1 Minimum Requirements for personnel providing instruction and assessment in Department Head, Prospective Executive Officer, Prospective Commanding Officer Major Command, Advanced

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Shiphandling and Prospective Commanding Officer Shipboard Fundamental NSS subject areas are contained in Statement of Work, Addendum B, paragraph 4.5.2.

Simulator instruction using Computer Sciences Corporation (CSC) Conning Officer Virtual Environment (COVE) bridge simulators - represents approximately 84% of total effort.

SWOSCOLCOM Newport COVE simulator variants include:

a. Eighteen (18) COVE 1 single student training stations which consist of six (6) student stations per instructor station, a virtual reality (VR) helmet that gives them a 360-degree view of their surroundings and employ a voice recognition system to provide the students with direct interaction with the simulation.

b. Six (6) COVE 3 student stations which have the same functionality as the COVE 1 stations except that in addition to the VR helmet, they are viewed on three 50 inch displays to allow the student a wider field of view as well as the option to include a hardware helm station.

c. Two (2) Full Mission Bridge Simulators which provide a full 360 degree projected environment, helm, VMS and radar stations to provide the student(s) with a realistic and immersive virtual environment.

d. Two LCS-1 Bridge Part-Task Trainers (BPTT), which includes a Bridge-Wing Control console, and two LCS-2 PTT.

e. One (1) additional COVE LCS is planned to be installed during Fiscal Year 2017. The new LCS trainer will be replications of (2) existing BPTTs in Memorial Hall rooms 118 and 125 (LCS-1), and 131(LCS-2) in function and appearance.

2.1.2 SWOSCOLCOM LCS Specific Courses delivered at LTF San Diego include the following COVE simulator variants:

a. Two (2) COVE LCS BPTT which provide LCS emulated helm and lee helm controls, Readiness Control Officer (RCO), VMS and radar stations to provide student(s) with a realistic and immersive environment.

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2.1.3 SWOSCOLCOM LCS Specific Courses to be delivered at LTF Mayport include the following COVE simulator variant:

a. One (1) COVE LCS1 BPTT, which provide LCS emulated helm and lee helm controls, Readiness Control Officer (RCO), VMS and radar stations to provide student(s) with a realistic and immersive environment scheduled for delivery late FY17.

2.1.4 All SWOSCOLCOM sites also include classroom facilities necessary to support delivery of course curriculum.

3. NSS Instructor/Operator Services Detailed Requirements

3.1 NSS Training Scope. Contractor shall provide NSS Instructor/Operator services to support SWOSCOLCOM courses in accordance with a Government developed and furnished schedule, using government provided curriculum, and the detailed requirements specified herein.

a. Newport: Estimated hours for the NSS Instructor/Operator services is 5500 hours per year and 3760 hours of LCS Specific Instructor/Operator services using qualified full or part-time personnel to provide flexible support during both day and evening training sessions using multiple devices simultaneously. Any additional hours may be negotiated at a later date under this task order or separate task order. Unused LCS hours towards the NSS hours if needed.

Contractor shall provide qualified instructor personnel to support up to a maximum of seven (7) simultaneous classes or simulator sessions at SWOSCOLCOM with sufficient back-up support to avoid loss of capacity due to illness or other authorized time off.

b. San Diego LTF: Estimated hours for the LCS specific Instructor/Operator services is 7680 hours per year using qualified full or part-time personnel to provide flexible support during both day and evening training sessions using a minimum of two (2) devices (LCS-1 BPTT and LCS-2 BPTT) simultaneously in support of LCS OOD and JOOD curriculum. In calendar year 2017 and beyond, additional class convenings will result in the need to support classroom sessions simultaneous with trainer operation.

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c. Mayport LTF: When installed in late FY17, initial estimated hours for the LCS specific Instructor/Operator services is 5760 hours per year using qualified full or part-time personnel to provide flexible support during both day and evening training sessions using one LCS-1 BPTT device and classroom sessions simultaneously in support of LCS OOD and JOOD curriculum.

d. Current NSS Instructor/Operator supported classes and approximate class size, include but are not limited to, the following course identification numbers:

1.	A-061-0042	VMS OPERATOR COURSE:	24 Students
2.	A-061-0044	VMS 9 OP:	24 Students
3.	A-4H-0141	SWOADVSHPHNDL:	3 Students
4.	A-4N-0004	ADOC:	96 Students
5.	A-4N-0300	SWOUSCGBRM:	24 Students
6.	J-4N-0009	SURF NVGTR:	24 Students
7.	A-4H-0107	Department Head (DH):	64 Students
8.	A-4H-0111	PCO)/PXO:	30 Students
9.	A-4H-0110	Major Command (MCO):	12 Students
10.	A-4N-0005	LCS OOD:	2 to 16 Students
11.	A-4N-0006	LCS JOOD:	2 to 16 Students

e. The notional Student-to-Instructor ratios are as follows:

1.	A-061-0042	VMS OPERATOR COURSE:	24:2 Simulator/24:1 Classroom
2.	A-061-0044	VMS 9 OP:	24:2 Simulator/24:1 Classroom
3.	A-4H-0141	SWOADVSHPHNDL:	4:1 Simulator/4:1 Classroom
4.	A-4N-0004	ADOC:	3:1 Simulator/24:1 Classroom
5.	A-4N-0300	SWOUSCGBRM:	24:5 Simulator/24:1 Classroom
6.	J-4N-0009	SURF NVGTR:	24:4 Simulator/24:1 Classroom
7.	A-4H-0107	Department Head (DH):	3:1 Simulator/32:1 Classroom
8.	A-4H-0111	PCO)/PXO:	3:1 Simulator/30:1 Classroom
9.	A-4H-0110	Major Command (MCO):	3:1 Simulator/12:1 Classroom
10.	A-4N-0005	LCS OOD:	2:1 Simulator/14:1 Classroom
11.	A-4N-0006	LCS JOOD:	2:1 Simulator/8:1 Classroom

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3.1.1 NSS Student Classroom Training and Competency Assessment

NSS Instructor/Operator contractor personnel must be capable of providing instructor led classroom instruction to all grades of U.S. Navy Surface Warfare Officers and Enlisted bridge navigation watch standers in NSS subject areas based on SWOSCOLCOM provided curriculum, and in accordance with the NSS TRD. This training shall take place in a classroom environment at SWOSCOLCOM without the use of simulator and other computer based training systems. NSS Instructor/Operator contractor personnel shall also provide for the assessment of competence in NSS subject areas in accordance with the NSS TRD and SWOSCOLCOM requirements and make student assessment reports to SWOSCOLCOM in accordance with a format, content and frequency designated by SWOSCOLCOM.

3.1.2 NSS Student Simulator Training and Competency Assessment

NSS Instructor/Operator contractor personnel shall provide NSS training directly to students of all grades of the U.S. Navy Surface Warfare Officers and Enlisted bridge navigation watch standers, as required, in a laboratory environment utilizing SWOSCOLCOM furnished simulators and other computer based training systems to reinforce concepts learned in the classroom and achieve core competencies in accordance with the NSS TRD. NSS Instructor/Operator contractor personnel shall also provide for the assessment of competence in NSS subject areas in accordance with the NSS TRD and SWOSCOLCOM requirements and make student assessment reports to SWOSCOLCOM in accordance with a format, content and frequency designated by SWOSCOLCOM.

3.1.3 SWOSCOLCOM Instructor Training. NSS Instructor/Operator contractor personnel shall provide training to SWOSCOLCOM military staff members who may serve as NSS instructors. The content of training shall include appropriate guidance in instructional techniques and competency assessment methods and practice involving the use of Computer Sciences Corporation (CSC) Conning Officer Virtual Environment (COVE) bridge simulators; the operation, capabilities, and limitations of the COVE bridge simulators; advanced shiphandling principles, and U.S. Navy Surface Ship particulars and maneuvering characteristics for all ship classes.

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3.1.4 Trainer Operator Requirements. The NSS training devices will require an initial trainer start-up check for operating capability prior to each training session. If trainer malfunctions, software errors, or hardware failures occur during this initial start-up check or during normal operation, then the contractor shall determine if the malfunction can be resolved by the instructor on site, i.e.: re-boot, scenario reload, etc. If the malfunction cannot be resolved by the instructor, then government provided on-site technical support will be notified to assess the trainer malfunction and assist the operator in casualty restoration. The operator will perform trainer shutdown procedures at the conclusion of scheduled training or as directed by on-site technical support.

3.2 Contract Instructor (CI) Responsibilities.

3.2.1 CI Primary Responsibilities. NSS Instructor/Operator services personnel shall perform duties to include, but not limited to:

a. Provide classroom and laboratory instruction in NSS subject areas based on SWOSCOLCOM provided curriculum and in accordance with NSS TRD.

b. Operate NSS simulators and other computer based training systems in support of conducting NSS training exercises.

c. Provide post exercise debriefing and instruction to SWOSCOLCOM students.

d. Provide for the assessment of SWOSCOLCOM students, record keeping, and reporting in accordance with SWOSCOLCOM and NSS TRD requirements.

e. Provide support to SWOSCOLCOM, as SURFOR's Executive Agent for Navigation, Seamanship and Shiphandling, in its role as the NSS Course Curriculum Model Manager, to maintain content currency.

(SWOSCOLCOM as the NSS C2M2 will determine, direct and approve all changes to the NSS curriculum and its implementation.)

f. Maintain highest levels of expertise in NSS subject areas, NSS TRD, NAVDORM, standard Navy conning commands, current

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maritime education and training best practices, U.S. Navy Surface Ship particulars and maneuvering characteristics for all ship classes, and other areas as appropriate; AND

g. Develop new and refine existing exercise scenarios based on SWOSCOLCOM requirements.

3.2.2 CI Additional Support Responsibilities. Same as SOW 66410-A-0433 paragraph 4.3.2 with the exception of training scheduler responsibilities. Course scheduling authority resides with SWOSCOLCOM.

3.2.3 CI Collateral Responsibilities. Same as SOW 66410-A-0433 paragraph 4.3.3.

3.2.4 LCS JOOD Instructor/Operator Primary Duties. LCS JOOD Instructor/ Operator services personnel shall perform duties to include, but not limited to:

- a. Provide classroom and laboratory instruction in NSS subject areas based on SWOS provided curriculum.
- b. Operate LCS simulators and other computer based training systems in support of delivering LCS JOOD curriculum and practical exercises and assessments.
- c. Provide post exercise debriefing instruction to students
- d. Provide for the assessment of students, record keeping, and reporting in accordance with SWOS assessment guidance.
- e. The Lead LCS JOOD instructor, assisted by the second instructor and the NSST Program Manager will provide support to SWOS who serves as SURFORs Executive Agent for Navigation, Seamanship and Ship-handling, in its role as the NSS Course Curriculum Model Manager (C2M2), to maintain content currency. No material will be changed and presented to students without being formally approved by SWOS C2M2.
- f. Maintain highest levels of expertise in high speed vessel operations, NSS subject areas, NSS TRD, NAVDORM, standard Navy conning commands, current maritime education and training best practices, U.S. Navy Surface Ship particulars and maneuvering characteristics for LCS platforms, and other areas as appropriate; AND

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- g. Develop new and refine existing exercise scenarios based on Fleet/SWOS requirements.
- h. One CIS instructor will serve as the Course Lead, reporting directly to SWOS N72 as well as perform as on site liaison with local facility and training site management.
- i. The CIS Course Lead will ensure the course is properly is properly documented in eTRMS to account for trainer usage, instructor assignments and student documentation.
- j. Perform research and analysis associated with shiphandling of LCS platforms. This may include, but not limited to, coordination with program office and waterfront activities.

3.3 NSS Competencies. Contractor shall deliver instructor/operator services in the following NSS areas based on SWOSCOLCOM provided curriculum with focus on the following:

a. Rules of the Road: International and inland navigation rules

- 1. Lights, shapes and sound signals
- 2. Meeting, overtaking and crossing situations
- 3. Sail, power and towing vessels
- 4. General prudential rule
- 5. Buoys and channel markers

b. Shiphandling Procedures: For each class of ship specified in 3.3.1 below.

- 1. Twisting using engines, mooring lines, wind and current.
- 2. Getting underway from alongside a pier with and without tug assistance
- 3. Approach to a pier for mooring with and without tug assistance
- 4. Use and interactions of mooring lines, pier fenders and anchors
- 5. Tug interactions as a function of own ship speed
- 6. Transit of channel with traffic during harbor egress and entry
- 7. Approach for underway replenishment with training for emergency situations that require breakaway

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8. Maintaining position alongside ship with venturi effect
9. Approach to and positioning ship to anchor and to moor to buoy
10. Maneuvering to avoid collision and grounding
11. Use of water jets and speed adjustments to maintain station
12. Plane guards
13. Emergency procedures (man overboard drills, etc.)
14. High speed shiphandling and operations
15. Effects of own ship steering and propulsion system failures

c. Maneuvering Characteristics: For each class of ship specified in 3.3.1 below.

1. Effects of waterjet (for LCS), propeller, rudder and thruster
2. Tactical diameters
3. Effects alongside during underway replenishment
4. Bottom effects
5. Effects of wind and current
6. Hydrodynamic and fendering interactions with traffic ships and tugs

d. Bridge Resource Management (BRM) (Non-LCS)

e. Electronic Chart Display and Information System - Navy (ECDIS-N) (Non-LCS)

f. RADAR/Automatic RADAR Plotting Aids (ARPA) (Non-LCS)

g. Maneuvering Board (MOBOARD) (Non-LCS)

h. Automatic Identification System (AIS) (Non-LCS)

3.3.1 U.S Navy Own Ship Classes. The delivered NSS Instructor/Operator services shall provide SWOSCOLCOM students with training and practice with own ship hydrodynamics for the following ship types/classes:

- a. CG47
- b. DDG-51 FLT I/II/IIA
- c. FFG7
- d. LSD 41

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- e. AOE 1/6
- f. LHA 1
- g. LHD 1/8
- h. LPD 4 and 17
- i. MCM 1
- j. CVN 68/78
- k. ARS 50
- l. PC 1
- m. AGF 3/11
- n. LCC 19
- o. LCS 1/2

3.3.2 NSS Scenario Traffic Ships (Non-LCS). The delivered NSS Instructor/Operator services shall provide SWOSCOLCOM students with training and practice with up to 25 simultaneous traffic ships operational during a single scenario in conjunction with own ship as follows:

- a. Own ships indicated in paragraph 3.3.1
- b. Tugs
- c. Helicopter (2 types)
- d. Military Sealift Command (MSC) Vessels (3 types)
- e. Commercial Vessels (3 types)
- f. Yachts (2 types)

3.3.3 NSS Scenario Ports (Non-LCS). The delivered NSS Instructor/Operator services shall provide trainees with training and practice in the following port areas:

- a. Norfolk, VA; Newport, RI; Pascagoula, MS; New York, NY; Charleston, SC
- b. Mayport, FL; Rota, Spain; Naples, Italy; New London, CT; Earle, NJ; Annapolis Harbor, MD
- c. San Diego, CA; Pearl Harbor, HI; San Francisco, CA; Sasebo and Yokosuka, Japan; Guam
- d. Bahrain; Corpus Christi, TX; Singapore including Straits of Malacca
- e. Puget Sound including Bremerton and Everett
- f. Long Beach including Naval Weapons Station Seal Beach

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g. Chesapeake Bay including Severn River and the Chesapeake and Delaware Canal

h. Open sea

3.3.4 NSS Training Scenario Composition (Non-LCS). SWOSCOLCOM will provide curriculum and NSS bridge simulators and other computer based training system scenarios to provide SWOSCOLCOM students with training and practice in the following NSS competencies:

a. Training and practice with Helm, Lee Helm, Navigator, and Engine displays

b. Training and practice utilizing BRM concepts, ECDIS-N display, and RADAR/ARPA display representations

c. Training and practice as a conning officer issuing standard ship control commands

d. Training and practice viewing 360 degrees around own-ship from various locations under normal and binocular views and visually determining angles on the bow

e. Team training and practice with a minimum of four simultaneous scenarios

f. Training and practice with multiple student stations operating on one, two, three, and four independent scenarios

g. Training and practice operating in a coordinated mode with groups of 4, 5, and 6 student stations with each coordinated mode running in a single scenario

h. Training and practice operating in a coordinated mode with groups of 2 student stations and the Full Mission Bridge (FMB) with each coordinated mode running a single scenario

i. Training and practice using a programmable, instructor monitored, voice communication system (radio communications)

j. Training and practice with a range of simulated environmental conditions including wind, sea state, storms, fog, ocean current, height of tide, channel banks, shallow water, and day/night conditions

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k. Training and practice with lights, shapes, and flags on traffic ships and aids to navigation

l. Training and practice with navigational aids, signal and spotlight effects and sounds

m. Training and practice with own-ship and traffic ship sound signals, own-ship engine sounds, and environmental sounds

n. Training and practice with up to date harbor specific databases

o. Training and practice of Mission Rehearsal scenarios

p. Training and practice with maneuvering board

q. Training and practice reinforcement through demonstrations, and recording and playback of training scenarios

3.3.5 Training Program Organization (Non-LCS). The delivered NSS Instructor/Operator services shall provide training to groups of 3 to 4 students organized in 4 hour blocks similar to the following:

a. Session 1 - Shiphandling in restricted waters to include the following:

- (1) Getting underway from pier or anchorage
- (2) Channel passages
- (3) Wind and current effects
- (4) Restricted visibility conditions imposed
- (5) Traffic vessels imposed
- (6) Casualties to own ship imposed
- (7) Man overboard imposed

b. Session 2 - Shiphandling in restricted waters to include the following:

- (1) Commence session from harbor entry or sea buoy
- (2) Channel passages
- (3) Wind and current effects
- (4) Restricted visibility conditions imposed
- (5) Traffic vessels imposed
- (6) Casualties to own ship imposed

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(7) Precision anchorage evolutions

c. Session 3 - Underway Replenishment Operations:

- (1) Operations while in a battle group formation
- (2) Restricted visibility conditions imposed
- (3) Traffic vessels imposed
- (4) Maneuvering own ship in replenishment operations
- (5) Making approach to replenishment ship
- (6) Station keeping while alongside
- (7) Casualties to own ship imposed (loss of steering, propulsion, electrical power requiring breakaway)
- (8) Casualties to replenishment imposed (loss of steering, propulsion, electrical power requiring conning of own ship to minimize the chance of collision or requiring breakaway).

d. Session 4 - Shiphandling in mooring evolutions to include:

- (1) Getting underway from pier or anchorage
- (2) Transit to pier
- (3) Anchorage approach
- (4) Pier approach
- (5) Wind and current effects
- (6) Tug use
- (7) Mooring to a pier
- (8) Mooring to a buoy
- (9) Mooring line use
- (10) Tug make-up configuration, commands and usage

e. Session 5 - Special Evolutions to include:

- (1) Towing
- (2) Mediterranean Moor
- (3) Heavy Weather and Storm Evasion

f. Individual student requested tailored training to address specific learning needs and competency development. These training evolutions will typically be accomplished outside of normal course schedule for individuals who request such additional instruction and be coordinated by SWOSCOLCOM N72 staff.

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3.3.6 Littoral Combat Ship Officer of the Deck (A-4N-0005) and Junior Officer of the Deck (A-4N-0006) Course Description:

1. The Littoral Combat Ship (LCS) Junior Officer of the Deck (JOOD) course is rooted in the US Navy's Train to Qualify (T2Q) concept, which establishes as a baseline objective the intent to equip the prospective LCS JOOD with the requisite mariner skill set and tactical awareness within the maritime environment required to proficiently and safely assist the Officer of the Deck in navigation, seamanship and shiphandling of the vessel immediately upon reporting aboard. To achieve this goal, training delivery includes a combination of classroom instruction, computer-based training, simulation, and live evolutions - in-port and where appropriate at sea. It is conducted in individual and team environments and focuses on watch station qualification and proficiency. The individual graduates the schoolhouse/ trainer qualified to meet the basic standards required to perform the tasks associated with the designated watch station or position. In order to meet these standards, SWOSCOLCOM has developed a curriculum with two primary areas of focus; classroom familiarization instruction and simulator based proficiency training. Students are provided the tools necessary to guide the vessel through navigational situations, with a particular focus on the fundamentals of seamanship, safety, and a thorough understanding of the capabilities and limitations of the ship class.

3.3.7 Littoral Combat Ship Officer of the Deck (A-4N-0005) Scope of Training:

1. Training is six (6) weeks in duration and includes both classroom lectures and simulator based proficiency training and is centered upon the Train to qualify (T2Q) concept. Typically, two weeks of classroom instruction is provided, followed by four weeks of dedicated simulator training. Training is conducted in dedicated Conning Officer Virtual Environment (COVE) simulators, simulating both LCS platforms and specific conditions while performing the following scenarios: Pier work (to include both getting underway and pier landings, underway replenishments, channel transit, night channel transit, low visibility transit, and heavy traffic. Classroom instruction includes: Introduction to Shiphandling, Rules of the Road,

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Radar/ARPA, VMS/ECDIS, Bridge Resource Management/Operational Risk Management, HSC/LCS Specific Shiphandling, Voyage Planning, and HSV operations familiarization on a High Speed Ferry.

Assessments will include: a pre-test, five (5) quizzes, a mid-term and a final written exam, and six practical assessments. Contractor Instructor/Operators shall provide N72 personnel academic status recommendations related to student performance and exam results

3.3.8 Littoral Combat Ship Junior Officer of the Deck (A-4N-0006) Scope of Training:

1. Training is eight (8) weeks in duration and includes both classroom lectures and simulator based proficiency training and is centered upon the Train to qualify (T2Q) concept. Typically, four weeks of classroom instruction is provided, followed by four weeks of dedicated simulator training. Training is conducted in dedicated Conning Officer Virtual Environment (COVE) simulators and LCS JOOD bridge part task trainers (BPTT), simulating both LCS platforms and specific conditions while performing the following scenarios: Pier work (to include both getting underway and pier landings, underway replenishments, channel transit, night channel transit, low visibility transit, high speed transit and heavy traffic. Classroom instruction includes: Introduction to Shiphandling, Rules of the Road, Radar/ARPA, VMS/ECDIS, Bridge Resource Management/Operational Risk Management, HSC/LCS Specific Shiphandling, Voyage Planning, and HSV operations familiarization on a High Speed Ferry.

Assessments will include: a pre-test, seven (7) quizzes, a mid-term and a final written exam, and four practical assessments. Contractor Instructor/Operators shall provide N72 personnel academic status recommendations related to student performance and exam results

4.6 NSS Training Facility. Same as SOW Addendum B, paragraph 4.1 except as noted below:

4.6.1 NSS Spaces. The government will provide office space and facility support for CI personnel. The Contractor shall be responsible for providing any spaces not furnished by the Government. Any additional contractor spaces shall be external to the Government property.

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4.6.2 LCS Spaces. The government will provide office space and facility support for CI personnel. The Contractor shall be responsible for providing any spaces not furnished by the Government. Additional spaces shall be external to the Government property. Classroom and instructor space shall be provided. Trainer facility floor plans and any projected additions are located at the device site.

4.6.3 NSS Office/Training Equipment/Furniture. SWOSCOLCOM shall furnish all classroom and laboratory facilities, bridge simulators and other computer based training systems, appropriate office space with desk and chair, access to telephones, Windows based computer workstations with internet connectivity, laser printers, fax machines, etc. and make them available for use in providing the NSS Instructor/Operator services specified herein. Any new office equipment introduced by the Contractor shall be Energy Star rated in support of the Government's utilities conservation requirements (see below). The introduction of such office furniture or equipment into Government provided spaces will be subject to approval by the COR or OSGR.

4.6.4 LCS Office Equipment/Furniture. The Contractor shall be responsible for providing any required office equipment or furniture not provided by the Government. Any new office equipment introduced by the Contractor shall be Energy Star rated in support of the Government's utilities conservation requirements (see below). The introduction of such office furniture or equipment into Government provided spaces will be subject to approval by the COR or OSGR.

5. Contractor Instructional Services (CIS) Schedule and Technical/Training Data

5.1 NSS CIS Schedule - Contractor shall provide NSS Instructor/Operator services to SWOSCOLCOM in accordance with a SWOSCOLCOM furnished schedule, curriculum and the detailed requirements specified herein. Daily working hours include varying periods between the hours of 0700 and 2200 (7:00 AM and 10:00 PM), Monday through Friday, excluding Federal holidays (unless otherwise directed/approved).

The contractor shall provide services as required based on the student load and scheduling of courses. The standard training

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day for scheduling of courses is during the hours of 0730-1700 (7:30 AM and 5:00 PM) Monday through Friday with an evening training period of 1800-2200 (6:00 PM and 10:00 PM) Monday through Thursday as required, excluding Federal holidays (unless otherwise directed/ approved).

For LCS CIS: Normal working hours will vary due to simulator availability. Normal classroom instruction will be provided Monday through Friday from 0800-1700. For simulator work, normal working hours may be defined as 0800-2200 in LCS-1 and LCS-2 simulator spaces located in building 1362. Hours may be adjusted to conform to trainer availability and student throughput requirements. Typically, 2 students will be in each simulator session. Classes comprised of students for both LCS platforms may require an instructor in both simulators simultaneously.

5.1.1 Federal Holidays. Work shall not be required on the following Federal Holidays:

- Jan - New Year's Day
- Jan - Martin Luther King's Birthday
- Feb - President's Day
- May - Memorial Day
- Jul - Independence Day
- Sep - Labor Day
- Oct - Columbus Day
- Nov - Veteran's Day
- Nov - Thanksgiving
- Dec - Christmas Day

5.1.2 NSS CIS Daily Schedule. The daily CIS schedule may be changed by the government scheduling personnel no later than (NLT) 1600 on the working day preceding a training day provided such CIS needs fall within the CIS parameters in this Appendix. Daily scheduled CIS events may be changed without notice, provided the CI assets required are the same as those that were originally required/scheduled for that training day (e.g., Government change cannot require the Contractor to increase the number of CIs, the hours-per-day and/or window of CI Operation originally scheduled for CIs for that day unless the Site Manager agrees to the change). Cancellation of scheduled training events shall be communicated by the government to the

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SM/ASM no later than ninety-six (96) hours prior to the scheduled date of training to avoid lost training time or unnecessary chargeable hours instructor time.

5.1.4 NSS CIS Additional Instruction. The contractor shall notify the government in writing when 85% of the contracted hours have been expended. Additional instruction may be required for additional training and other requirements deemed necessary by the Government in excess of the contracted number of hours, or for hours that fall outside of the prescribed working hours in paragraph 5.1. Additional Instruction time may be conducted during the window of CI Operation and/or on non-working days (weekends and/or holidays) at the discretion of the SWOSCOLCOM scheduling authority. The Contractor will be given a minimum seventy-two (72) hours' notice for additional instruction requirements for weekend days/holidays/non-working weekdays. Additional instruction time during those weekend/holiday/non-working hours will be chargeable as Premium Time.

For normal working weekdays (i.e. Monday-Friday), the Contractor shall be notified NLT 1600 on the working day preceding the day that the additional instruction will be required providing that CI is on-site at time of the request. For normal working weekdays (i.e. Monday-Friday), the Contractor will be compensated for additional instruction at the normal negotiated rate IAW the terms of this contract. The additional instruction hours-per-week limitation, applies to a Monday through Sunday week.

5.1.5 NSS Cumulative Instruction Time. The contractor shall notify the COR in writing at the point when eighty (85) percent of the cumulative funded amount of NSS CIS chargeable and additional instruction time is reached. (i.e. 3400 hours) If Additional instruction time discussed in paragraph 5.1.4 is determined to be inadequate to fully fulfill the government's requirement, this task order may be amended.

5.2 Technical/Training Data. CIs shall have knowledge of technical data required to fulfill their CI requirements. The documents/data listed below are (not limited to) the primary documents applicable.

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Manual/Publication No.	Title
COMNAVSURFLANT/PAC INST 3530.4	NAVDORM
USCG	Navigation Rules and Regulations Handbook
NWP 4-01.4	Unrep Manual
Naval Inst. Press	Watch Officers Guide
Naval Inst. Press	Naval Shiphandlers Guide
Michael R. Adams	Bridge Resource Management
SWOSCOLCOMNOTE 1500	SWOSCOLCOM Course Schedules

Table B2-1

5.3 Personnel

5.3.1 NSS CI Safety and Security. Same as SOW 66410-A-0433, paragraph 4.5.5 and amplified as follows: All Contractor personnel covered under this Appendix shall have a SECRET security clearance. The Security Officer shall be notified within twenty-four (24) hours after discharge of personnel with security clearances. The Contractor shall ensure all locally-issued Government identification/access cards (i.e. CAC, access badges, etc.) related to this task order are returned to the OSGR/COR prior to Contractor personnel's final day of employment at the site. Handling and implementation of Not for Release to Foreign Nationals (NOFORN) requirements shall be strictly enforced by CI's.