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<b>Module: 1-4 Surface Warfare</b>		
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<b>Homework:</b> Assignments shall be completed before the respective class. Quizzes cover assigned homework, required reading, Computer Based Training (CBT) and Instructor Led Training (ILT).		
<b>Course Grade Weighting:</b>		
Four Quizzes (10 questions each)		20%
Quiz 1: Missions, Roles & Responsibilities; Communications; Battlespace; TACAIR; OTH-T; RMP		
Quiz 2: Battlespace; Communications; RMP; Surface Missiles, Helo Employment; Naval Gunnery		
Quiz 3: SAG Procedures; MIO; FAC/FIAC Defense; Counter-Piracy; MPRA Employment		
Quiz 4: Comprehensive SUW Module Review		
SUW Exam (1 hour Perception = 25% of exam; 3 hour written = 75% of exam)		80%
TAO ITS: Two optional scenarios are available to help you practice both watchteam coordination and internal/external communications.		N/A
<b>SUW References:</b>		
<b>ALL</b> required readings are available in the Maritime Warfare References folder at the following location: <b>SIPR R:\Maritime Warfare References.</b>		
*** Recommended readings are available in <b>SIPR L:\N73_Lessons\SWO DH\Module 1-4 SUW\Additional Topic Information\</b> (applicable topic)		
<b>1-4-1 Surface Warfare Overview</b>		
	<b>Topic:</b>	<b>Time Required</b>
	1-4-1-0 Surface Warfare (SUW) Intro	30 minutes
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b>	

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	SUW Syllabus	15 minutes
	1-4-1-1 SUW Missions, Roles and Responsibilities	2 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	45 minutes
	L1:T1: Policy and Guidance	
	L1:T2: Roles and Responsibilities	
	<b>Required Reading / Viewing:</b>	
	NAVY-WIDE OPTASK SUW	30 minutes
	NWP 3-20, Navy Surface Warfare Manual, Ch. 1 (1.2), 4 (4.1, 4.3)	45 minutes
	NWP 3-56, Composite Warfare Doctrine, Ch. 3 (3.10 – 3.13), 4 (4.4, 4.5, 4.8, 4.9), 5 (5.5, 5.10, 5.11)	30 minutes
	ATP 1(E) Vol. I, Allied Maritime Tactical Instructions and Procedures, pages 1-54 through 1-60 (Surface Applicable Only)	10 minutes
	<b>Recommended Reading / Viewing:</b>	
	NWP 3-20, Navy Surface Warfare Manual, Ch. 2	
	*** A Cooperative Strategy for 21 <sup>st</sup> Century Seapower	
	1-4-1-2 Capabilities and Limitations 101 (covered in USN Caps and Lims Lesson)	1 hour
	<b>Homework/Read Ahead Assignments:</b>	
	<b>Required Reading / Viewing:</b>	
	NTTP/NTRP 3-20.6 (series), Class Tactical Manuals/Publications, Surface Warfare chapter ( <b>Note: Responsible only for your future ship class. If not slated, platform not listed or platform does not have SUW chapter, refer to CG or DDG class tactical publication.</b> )	1 hour
	1-4-1-3 SUW Battlespace	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	45 minutes
	L3:T1: Surface Warfare Battlespace Surveillance	
	<b>Required Reading / Viewing:</b>	
	NWP 3-20, Navy Surface Warfare Manual, Ch. 1 (1.5)	15 minutes
	NTTP 3-20.3, Surface Ship SUW Tactics, Ch. 3 (scan 3.1, read 3.2), 4 (4.1–4.2.2.2)	1 hour
	<b>Recommended Reading / Viewing:</b>	
	NTTP 3-20.3, Surface Ship SUW Tactics, Ch. 5 (5.2.4.2-5.2.4.2.3)	
	1-4-1-4 SUW Communications	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	30 minutes
	L2:T2: Surface Warfare Voice Procedures	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.1, Surface Warfare Commander's Manual, Ch. 2 (2.5)	30 minutes

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	*** SUW Brevity Codes list taken from APP 7(E)	20 minutes
	*** SUW Communications Guide	10 minutes
	<b>Recommended Reading / Viewing:</b>	
	Scan APP 7 Joint Brevity Words Publication (all)	
<b>1-4-2 Surface Warfare Weapons Fundamentals</b>		
	<b>Topic:</b>	
	1-4-2-1 Large and Small Caliber Gun Employment	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	1 hour
	L5:T1: Small Arms Tactics	
	L10:T1: Gun Employment	
	<b>Required Reading / Viewing:</b>	
	NAVSEA SW030-AA-MMO-010 Navy Gun Ammunition Ch. 2 (paragraphs 2-3.3.1, 2-3.3.2, 2-4.3 [all], 2-5 [all])	30 minutes
	NWP 3-20.32, Surface Ship Gunnery, Ch. 9 (9.1)	10 minutes
	NTTP 3-20.3, Surface Ship SUW Tactics, Appendix A.2	15 minutes
	NTTP 3-20.5, Counter-FAC/FIAC Procedures, Ch. 8 (8.3 thru 8.7), Appendices F (F.1 – F.5, F.13), G (G.2), H (Figure H-1)	1 hour
	<b>Recommended Reading / Viewing:</b>	
	NWP 3-20.32, Surface Ship Gunnery, Appendix F	
	NTTP 3-20.5, Counter-FAC/FIAC Procedures, Appendices D (read for your ship class), F (scan F.6 – F.12)	
	TM 3-20.1-12, CIWS Mk 15 Mods 21 thru 28 Employment, Ch. 2	
	TB SUW 04-01, KE-ET/HE-ET Employment vs FAC/FIAC, Sec. 2	
	1-4-2-2 SUW Missiles	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	1 hour
	L10:T2: Harpoon Employment	
	L10:T3: Surface-to-Air Missiles in the Surface Mode	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.71, Surface Ship Harpoon Employment Manual, Executive Summary, Ch. 2 (2.1-2.3), scan Ch. 3, Ch. 4 (4.4.11-4.5), scan Ch. 6, scan Ch. 7 (read 7.5)	45 minutes
	<b>Recommended Reading / Viewing:</b>	
	TM 3-01.1-13, SSDS Mk 2 Mod 1 Core Tactics, Chapter 4.6, 4.7	
	NAVSEA OP 3594 Volume 7A Part 1 Revision 2, Harpoon Firing Guidance	
	1-4-2-3 Organic Helicopter Procedures	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	1.5 hours

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	L4:T1: Surface Warfare Aircraft Tactics	
	<b>Required Reading / Viewing:</b>	
	SEAWOLF Volume 3, Ch 3.7, Surface Warfare Sensor Considerations and Tactical Employment SEAWOLF Volume 4, Ch 4.3, Section II, Surface Warfare Search and Classification <a href="https://intelshare.intelink.sgov.gov/sites/nsawc/weapon-schools/Sitepages/SEAWOLF/SEAWOLF.aspx">https://intelshare.intelink.sgov.gov/sites/nsawc/weapon-schools/Sitepages/SEAWOLF/SEAWOLF.aspx</a>	1 hour
	<b>Recommended Reading / Viewing:</b> N/A	
	1-4-2-4 MPRA Employment	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-22.1, P-3C Tactical Employment, Ch. 3, Ch 5 (5.1 – 5.7.1.2.3, 5.7.2 – 5.7.2.2, 5.7.2.5 – 5.7.2.6, 5.7.3 – 5.7.3.1, 5.7.3.2 – 5.7.3.2.2), Ch 6 (6.5.4.3 – 6.5.4.6.3)	1.5 hours
	<b>Recommended Reading / Viewing:</b>	
	NTTP 3-20.4, Surface Warfare Aviation Tactics	
	1-4-2-5 SUW TACAIR Employment	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-22.1, F-18 Tactical Employment, Ch. 2 (2.1-2.2.2.2, 2.3.1.3-2.4.1.1, 2.4.1.6-2.5.1, 2.6-2.6.2.2, 2.7-2.8.1.3), Ch. 10 (10.1-10.3.1.3, 10.5-10.6.1.3, 10.7-10.7.1.4, 10.8-10.8.1.2, 10.9-10.9.1.3, 10.10-10.10.1.11, 10.11-10.11.1.7, 10.12-10.12.1)	1.5 hours
	NTTP 3-03.4, Naval Strike and Air Warfare, Ch 11 (11.1-11.2.7, 11.3-11.3.5.2.2, 11.4-11.4.4, 11.4.6-11.4.7.3.4.1, 11.4.7.3.8-11.5.3.2)	1 hour
	<b>Recommended Reading / Viewing:</b>	
	TM C3F 3-03.1-01 TACAIR Employment Against Maritime Threat (Particularly Section 2.4 – 2.12.10) Focus on Weaponing and Munitions Effectiveness	
<b>1-4-3 Employment of Surface Warfare Weapons Systems</b>		
	<b>Topic:</b>	
	1-4-3-1 Recognized Maritime Picture (RMP) Development	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A (topics previously covered in L3:T1: Surface Warfare Battlespace Surveillance)	
	<b>Required Reading / Viewing:</b>	
	Review NAVY-WIDE OPTASK SUW	15 minutes
	NTTP 3-20.3, Surface Ship SUW Tactics, Chapter 4.3, 4.4	45 minutes
	NTTP 3-22.1, P-3C Tactical Employment, Chapter 6.3.1, 6.3.2	15 minutes
	Review SEAWOLF Section 3 Ch 3.7 Surface Warfare Sensor Considerations and Tactical Employment	30 minutes

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	SEAWOLF Section 4 Ch 4.3 Section II Surface Warfare Search and Classification <a href="https://intelshare.intelink.sgov.gov/sites/nsawc/weapon-schools/Sitepages/SEAWOLF/SEAWOLF.aspx">https://intelshare.intelink.sgov.gov/sites/nsawc/weapon-schools/Sitepages/SEAWOLF/SEAWOLF.aspx</a>	
	NTTP 3-20.8 Air Operations in Maritime SUW, Ch 2.d.(1)(g) (pages 10-15)	15 minutes
	<b>Recommended Reading / Viewing:</b> N/A	
	1-4-3-2 Surface Action Group (SAG) Procedures	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A (topics previously covered in L1:T2: Roles and Responsibilities)	
	<b>Required Reading / Viewing:</b>	
	NAVY-WIDE OPTASK SUW, Para. C3, F1	5 minutes
	ATP 1(E) Vol I, Allied Maritime Tactical Instructions and Procedures, Ch. 6 (6257-6258) and Ch. 8 (8201-8202)	5 minutes
	ATP-31(B), NATO Above Water Warfare Manual, Ch. 8 (Section V)	45 minutes
	NTTP 3-20.1, Surface Warfare Commander's Manual, Ch. 3 (Section 3.4.4.3)	5 minutes
	NTTP 3-20.3, Surface Ship SUW Tactics, Ch 5 (Section 5.3.2)	30 minutes
	<b>Recommended Reading/Viewing:</b> N/A	
	1-4-3-3 Principles of Single Ship Over the Horizon Targeting (OTH-T)	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	30 minutes
	L6:T1: Over-the-Horizon Targeting Concepts	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.7, Over-the-Horizon Targeting, Executive Summary, Ch.1, 5 (5.8), 7, 8 (8.5)	1.5 hours
	<b>Recommended Reading/Viewing:</b>	
	NTTP 3-60.1, Multi-Service Tactics, Techniques, and Procedures for Dynamic Targeting	
	ATP-31(B), NATO Above Water Warfare Manual, Ch. 8 (8213)	
	NTTP 3-20.71, Surface Ship Harpoon Employment Manual, Ch. 6 (6.4)	
	NTTP 3-20.3, Surface Ship SUW Tactics, Ch. 5.2.3.3-5.2.4.1	
	1-4-3-4 Coordinated Multi-Ship Battlespace Management	2.0 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.1, Surface Warfare Commander's Manual, Ch. 4 (read 4.4.1.4), Ch. 5 (read 5.3-5.3.6, scan 5.4), read Appendices A and E	1.5 hours
	NTTP 3-20.3, Surface Ship SUW Tactics, Ch. 6 (skim)	
	<b>Recommended Reading / Viewing:</b>	
	NTTP 3-20.6.24M, WMSL Class Tactical Publication, Ch.1	
	NTTP 3-20.7, Over-the-Horizon Targeting, Ch. 4, 5	

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<b>1-4-5 Single Ship Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC)</b>		
	<b>Topic:</b>	
	1-4-5-1 Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) Defense	2 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	1 hour
	L7:T1: Fast Attack Craft/Fast Inshore Attack Craft	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.5, Counter-FAC/FIAC Procedures, Executive Summary, Ch. 2 (2.7), 3 (3.3, 3.6), 4 (4.1-4.6), 6 (6.1-6.7), 7, Appendices C, E, G, H	1.5 hours
	TM 3-20.1-09, Multi-ship and Unit Level Crew Served Weapon Employment Ch. 2 (2.5), 3, 4 (4.3-4.4), 5 (5.5, 5.7-5.11), 6, Appendix A (for your class of ship)	30 minutes
	TM 3-20.1-12, CIWS Mk 15 Mods 21 thru 28 Employment, Ch. 2	30 minutes
	<b>Recommended Reading / Viewing:</b>	
	TB SUW 14-05, Gun Computer System Configuration for Employment of HE-MF Round vs FIAC	
	1-4-5-2 Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) Scenario	3 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
	<b>Recommended Reading / Viewing:</b> N/A	
<b>1-4-6 Maritime Interception Operations (MIO)</b>		
	<b>Topic:</b>	
	1-4-6-1 Maritime Interception Operations (MIO)	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b>	30 minutes
	L8:T1: Maritime Interception Operations Concepts	
	L8:T2: Maritime Interception Operations Boarding Operations	
	L8:T3: Maritime Interception Operations Boarding Procedures	
	L8:T4: Maritime Interception Operations Equipment and Training	
	<b>Required Reading / Viewing:</b>	
	NAVY-WIDE OPTASK VBSS	30 minutes
	NTTP 3-07.11M, Visit, Board, Search and Seizure Operations, Ch. 1, 2 (2.1 – 2.11), 3 (3.4 – 3.6), 4 (4.2, 4.5 – 4.6), 5, 6, Appendix F	1.5 hours
	<b>Recommended Reading / Viewing:</b>	
	NTTP 3-07.11M, Visit, Board, Search, and Seizure Operations, Ch. 3 (3.1 – 3.4), App. H	
	TB SUW-05-02, Tactics for Vessel Interception and the Use of Warning Shots and Disabling Fire	
	*** CJCS EMIO EXORD MOD 002 152204Z NOV10	

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<b>1-4-7 Counter-Piracy</b>		
	<b>Topic:</b>	
	1-4-7-1 Counter-Piracy	1 hour
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b>	
	NTTP 3-20.1, Surface Warfare Commander's Manual, Appendix F	1 hour
	NAVY-WIDE OPTASK COUNTER PIRACY	30 minutes
	<b>Recommended Reading / Viewing:</b>	
	TB SUW 05-02, Tactics for Vessel Interception and the Use of Warning Shots and Disabling Fire	
	TB SUW 12-02, Anti-Piracy and Counter-Piracy Operations, Sections 6	
	*** Best Management Practices (BMP 4) for Protection against Somalia Based Piracy	
<b>1-4-8 Guest Lecturers</b>		
	<b>Topic:</b>	
	1-4-8-1 Counter-Transnational Organized Crime (CTOC)	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
<b>1-4-9 Surface Warfare MMTT Scenarios</b>		
	<b>Topic:</b>	
	1-4-9-1 SUW TAO ITS	1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
	1-4-9-2 SUW MMTT Communications	30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
	1-4-9-3 SUW MMTT In-Brief	30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
	1-4-9-4 SUW MMTT Student Brief	30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	

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	<b>Required Reading / Viewing:</b> N/A	
1-4-9-5 SUW MMTT Scenario 1		1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-9-6 SUW MMTT Student Brief		30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-9-7 SUW MMTT Scenario 2		1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-9-8 SUW MMTT Student Brief		30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-9-9 SUW MMTT Scenario 3		1.5 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-9-10 SUW MMTT B		4 hours
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
<b>1-4-10 Surface Warfare Assessments</b>		
	<b>Topic:</b>	
1-4-10-1 Quiz 1		30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-10-2 Quiz 2		30 min
	<b>Homework/Read Ahead Assignments:</b>	
	<b>CBT Lesson(s):</b> N/A	
	<b>Required Reading / Viewing:</b> N/A	
1-4-10-3 Quiz 3		30 min

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	<b>Homework/Read Ahead Assignments:</b>	
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	
	1-4-10-4 Quiz 4	30 min
	<b>Homework/Read Ahead Assignments:</b>	
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	
	1-4-10-5 SUW Practicals	2 hours
	<b>Homework/practical completion:</b>	2 hours
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	
	1-4-10-6 SUW Exam Review	1 hour
	<b>Homework/Read Ahead Assignments:</b>	
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	
	1-4-10-7 SUW Exam	4 hours
	<b>Homework/Read Ahead Assignments:</b>	
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	
	1-4-10-8 SUW Exam Debrief	30 min
	<b>Homework/Read Ahead Assignments:</b>	
	CBT Lesson(s): N/A	
	Required Reading / Viewing: N/A	

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