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Module: 2-5 WCS Billet Specialty Training (BST)

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WCS References: Students shall review each topic's power point and required reading as a read ahead before class. These items may be found under: SIPR L:\N73_Lessons\ORTE\4-WCS Billet Specialty under folders for PPTs and References. Some references will also be on the SIPR R Drive.		
Assignments: Throughout this course Weapons Officers will have 9 Practical Works throughout the course. LCS CSOs will have 6 Professional Works and LPD/LHD/LHA CSOs will have 5 Professional Works. These assignments are designed to prepare you for tasks you will likely encounter during your tour as the WEPS or CSO. They will also help you prepare for your final exam.		
Quizzes: Three quizzes will occur during the course. These perception based quizzes are designed to provide knowledge checkpoints to assess your learning. They will also assist in preparing you for the final exam.		
Blended Learning Approach: 26 hours of ILT, 7 hours facilitated discussion, 14 hours student presentations, 32 hours of labs and lab preps, 12 hours of mentorship, 25 hours of CBT, and 37 hours of focused study and study time provided during the working day. Additional study recommended out of class.		
Course Grade Weighting		
Practical Work		10%
BST Final Project		10%
Quizzes		10%
BST Final Exam		70%

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Reading assignments which apply to multiple lessons will only be mentioned for the first lesson. Assumption is you read the reference when first assigned and are able to retain your knowledge.		
2-5-1 WEPS/CSO Overview		
	Topic:	Time Req'd
	2-5-1-1 WEPS/CSO Responsibilities	1.0 hour
	Homework/Read Ahead Assignments:	
	None	
	2-5-1-2 Programs and Certifications	1.0 hour
	Read Ahead Assignments:	
	OPNAVINST 3120.32D SORM Ch 3.5	
	CNSF INST 1330.1A CRAV Instruction (Review from TM/NA)	
	CNSP/CNSL INST 3500.11 SFRM (Review from TM/NA)	
	CNSP/CNSL INST 3502.3 SFEM (Review from TM/NA) Including Appendixes	
	CNSF INST 4790.9 CSOSS (Review from DH MRC)	
	WFIP 52I Combat Systems Smooth Log	
	CNSL/CNSP INST 4790.5 Tech Pub Library	
	OPNAVINST 3960.16 Test Equipment	
	Homework Assignment: None	
	2-5-1-3 Turnover Requirements	1.0 hour
	Read Ahead Assignments:	
	OPNAVINST 3120.32D SORM Ch 3.2	
	CNSF INST 4400.1 Surface Forces Supply Procedures Ch 6 Inventory Control	
	CNSF INST 4440.1B Shipboard Maintenance Assist Modules	
	2-5-1-4 ATFP Program	1.0 hour
	Read Ahead Assignments:	
	CNSP/CNSL INST 3300.1B Ch 1	
	USFF OPORD 3300 Series	
	CNSP/CNSL INST 3500.11 SFEM for ATFP	
	ATG Toolbox Webpage for ATFP	
	2-5-1-5 VBSS	1.0 hour
	Read Ahead Assignments:	
	ATG Toolbox for VBSS including ASA Checksheet 01 Feb 2014	
	CNSP/CNSL INST 3500.11 SFEM for VBSS	
	ATGLANT Users Guide 05 Nov 2014 (Review from TM/NA)	
	ATGPAC Users Guide 08 Jun 2012 (Review from TM/NA)	
	NTPP 3-07.11M MIO (Review from SUW)	
	Navy Wide OPTASK MIO (Review from SUW)	
	Navy Wide OPTASK VBSS (Review from SUW)	

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	2-5-1-6 SSO and Top Secret Control	1.0 hour
	Read Ahead Assignments:	
	SECNAVINST 5510.36 DoN Information Security Program	
	SECNAVINST 5510.30 DoN Personal Security Program	
	2-5-1-7 Professional Works	10 hours & 24 hr CBT
	Assignments:	
	Explosive Safety/SESI – Plan for a SESI	
	CCC – Plan for a CCC Certification	
	ATFP – Plan for an ATFP Certification	
	Ammo Onload (WEPS Only) – EXSAF CBT	
	Cyber Security – Brief cyber maintenance	
	Turnover Plan – prepare your turnover plan and brief it	
	CSOSS – Study your CSOSS and understand primary and secondary support services	
	2-5-1-8 Professional Works (WEPS Only)	6 hours
	Assignments:	
	NSFS – Prepare for an NSFS Certification	
	CMTQ – Prepare for CMTQ	
	USW – Prepare for a ASW Cert	
	2-5-1-9 DH Mentorship	1.0 hour
2-5-2 Explosive Safety Management		
	2-5-2-1 EXSAF/SESI	1.0 hour
	Read Ahead Assignments:	
	NOSSAINST 8023.12 Series including all annexes	
	NOSSA Interim Change Message DTG 010922ZJUL14	
	ATGLANT and ATGPAC Users Guide EXSAF Section	
	OPNAVINST 8020.14 Series	
	NAVSEA SW02-AD-SAF-010	
	SESI FY14 Common Findings	
	2-5-2-2 Qualification and Certification Program	1.0 hour
	Read Ahead Assignments:	
	OPNAVINST 8023.24 Series	
	FY15 Explosive Safety Conference Slides for Session K - Qual Cert	
	Qual Cert Case Study NAVSAFCEN Message DTG 181851ZAUG15	
	2-5-2-3 Ammo Admin	2.0 hours
	Read Ahead Assignments:	
	NAVSUP P-724 Series	
	NAVSUP P-801 Series	
	NAVSUP P-805 Series	

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	WFIP 69.I Fleet Sentencing	
	2-5-2-4 AA&E	1.0 hour
	Homework/Read Ahead Assignments:	
	OPNAVINST 5530.13C	
	NAVSEA OP 4	
	Skim NAVSEA OP 5	
	FY15 Explosive Safety Conference Slides for Session C – AA&E	
	FY15 Explosive Safety Conference Slides for Session M – OP4 Updates	
	2-5-2-5 Ordnance Handling Equipment / Material Handling Equipment	0.5 hour
	Homework/Read Ahead Assignments:	
	NAVSUP P 538	
	NAVSEA SWO23-AH-WHM-10	
	2-5-2-6 Magazine Protection	1.5 hours
	Homework/Read Ahead Assignments:	
	COMFLTFORCOMINST 4790.3 Series Vol IV Ch 14.2	
	Maintenance for Magazine Sprinkling Systems S9522-AA-HBK-010 Ch 3, 4, 5	
	WFIP 128C	
	WFIP 133C	
	2-5-2-7 Close-In Weapons System (CIWS)	1.0 hour
	Homework/Read Ahead Assignments:	
	SW-221-BH-MMO-010	
	SW300-BC-SAF-010 December 2003	
	TM 3-20.1-12	
	TB AD-03-01 Feb 2003	
	Skim http://cnl.phdnswc.navy.smil.mil website	
	2-5-2-8 NATO Sea Sparrow Missile (NSSM) and Rolling Airframe Missile	1.0 hour
	Homework/Read Ahead Assignments:	
	NAVSEA OP 3594 Vol 11D	
	NAVSEA OP 3594 Vol 10	
	SW230-A0-SOM-090	
	2-5-2-9 Vertical Launch System (VLS) (WEPS Only)	1.0 hour
	Homework/Read Ahead Assignments:	
	SW394-AF-MMO-020/VLS Introduction and Description	
	TW394-J0-ECI-010/VLS Launcher Certification Inspection Requirements	
	2-5-2-10 Ammo Onload Preps	1.0 hour
	Homework/Read Ahead Assignments:	
	Review NOSSA Website https://nossa.dc3n.navy.mil/nrws3/	
	2-5-2-11 Ordnance Handling Safety	1.0 hour

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	Homework/Read Ahead Assignments: None	
	OP3565 Vol II: HERO	
	“The Importance of the HERO Program to Minimize Risk and Prevent Mishaps” by Charles Denham from NOSSA 09 Feb 2015	
	FY15 Explosive Safety Conference Slides for Session H – RADHAZ	
	2-5-2-12 DH Mentorship	1.0 hour
	Homework/Read Ahead Assignments: None	
2-5-3 Gun Systems		
	Topic:	Time Req'd
	2-5-3-1 Small Arms/Crew Served Weapons Maintenance	1.0 hour
	Homework/Read Ahead Assignments:	
	NAVSEA OP 3347	
	SW370-AH-11 N-010 Shipboard Small Arms Ranges	
	NAVEDTRA 14110	
	NAVEDTRA 14109	
	2-5-3-2 Naval Gun Systems	1.0 hour
	Homework/Read Ahead Assignments:	
	SW323-CS-MMO-010 Rev 2 5" Tech Manuel Vol 1 Ch 1 & 2	
	2-5-3-3 Gun Qualifications	1.0 hour
	Homework/Read Ahead Assignments:	
	CNSP/CNSLINST 3591.1 Small Arms Training and Qualification	
	2-5-3-4 Live Fire	1.0 hour
	Homework/Read Ahead Assignments:	
	CNSF Warfighting Serial 1: DTG 052355ZFEB15	
	CNSL Supplemental Guidance to Warfighting Serial 1: DTG 271613ZMAR15	
	CNSF Warfighting Serial 4: DTG 062141ZAPR15	
	2-5-3-5 Negligent Discharge Case Studies	2.0 hours
	Homework/Read Ahead Assignments:	
	CHK 9mm Negligent Discharge Case Study	
	JWS 9mm Negligent Discharge Case Study	
	Lifeboat Fire Case Study	
	ARB 5" Negligent Discharge Case Study	
	OSA Mag Sprinks Discharge Case Study	
	HUE Negligent Discharge Case Study	
	2-5-3-5 DH Mentorship	1.0 hour
	Homework/Read Ahead Assignments: None	
2-5-4 C5I Management		
	Topic:	Time Req'd
	2-5-4-1 Comms Planning	1.5 hours

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	Homework/Read Ahead Assignments:	
	USFF SAR Process Message DTG 111213ZSEP15	
	USFF Navy Wide OPTASK Comms DTG 14133ZJUN13	
	USFF JIST Implementation Message DTG 070707ZFEB13	
	2-5-4-2 HF/UHF	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-3 SHF/EHF	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-4 HF MCN	1.0 hour
	Homework/Read Ahead Assignments:	
	Review USFF N6 CAS Page for HF MCN	
	2-5-4-5 CCC Overview	1.0 hour
	Homework/Read Ahead Assignments:	
	CNSP/CNSL INST 3502.3 for CCC	
	CNSP/CNSL INST 3500.11 SFEM for CCC	
	ATGLANT Users Guide 05 Nov 2014	
	ATGPAC Users Guide 08 Jun 2012	
	Review ATG Toolbox	
	2-5-4-6 Navigation/Surface RADAR	2.0 hours
	Read Ahead Assignments:	
	NAVSEA OP 3565 Vol II HERO & HERP Users Manual	
	Homework:	
	Review your ship's specific technical manual referenced in slides	
	2-5-4-7 ICOM/Alarms	0.5 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-8 DMS/FODMS	0.5 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-9 LINK Response Team	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-10 BFTT/OBT/FST	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-4-1-11 MOB A Certification	1.5 hours
	Read Ahead Assignments:	
	Review ATG Toolbox	
	Homework:	
	CNSP/CNSL 3700.1A Air Certification for Surface Ships	
	2-5-4-12 EMO Seminar	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-4-13 DH Mentorship	1.0 hour

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	Homework/Read Ahead Assignments: None	
2-5-5 Cyber Management		
	Topic:	Time Req'd
	2-5-5-1 Cyber Operations	1.0 hour
	Homework/Read Ahead Assignments:	
	COMNAVCYBERFOR 5239.2C Version 3	
	COMFLTCYBERCOM CSICP Announcement DTG 282137ZJAN11	
	2-5-5-2 Cyber Tools	1.0 hour
	Homework/Read Ahead Assignments:	
	DODINST 8570.01M Information Assurance Workforce Improvement Program Ch 3	
	Review NAVIFOR Website https://usff.portal.navy.mil/NAVIFOR/	
	2-5-5-3 Cyber Security Management	1.0 hour
	Homework/Read Ahead Assignments:	
	COMNAVIDFORINST 5239.3B	
	COMNAVIDFOR Clarification of Cyber Security Readiness for Platform IT Systems DTG 071500ZMAY15	
	2-5-5-4 Cyber and Space Workforce	1.0 hour
	Homework/Read Ahead Assignments:	
	SECNAVINST 5239.20A CSWF Management and Qualification	
	CNO Message on Navy Cyber Security Work Force Credentials DTG 101501ZAPR15	
	2-5-5-5 Cyber Material	1.0 hour
	Homework/Read Ahead Assignments:	
	"Achieving Better Onboard Network Security" Report by INSURV August 2014	
	CNSP CASREP Message DTG 032122Z JUN 14 (Review from TM/NA)	
	CNSL/CNSP CASREP Guidance DTG 071627Z APR 14 (Review from TM/NA)	
	CNSL/CNSP INST 3040.2 CASREP Policy (Review from TM/NA)	
	2-5-5-6 Cyber Policies and Orders	1.0 hour
	Homework/Read Ahead Assignments:	
	DOD Cyber Strategy April 2015	
	2-5-5-7 DH Mentorship	1.0 hour
	Homework/Read Ahead Assignments: None	
2-5-6 Undersea Warfare		
	Topic:	Time Req'd
	2-5-6-1 ASW System Readiness	1.0 hour
	Homework/Read Ahead Assignments:	
	NAVSEA S9165-AE-MMA-010/SDRW-1	
	WFIP 138 ASW Proficiency Training	
	CNSF Warfighting Serial 4 DTG 182001ZJUN15	

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2-5-6-2 Surface Vessel Torpedo Tubes (SVTT)		1.0 hour
Homework/Read Ahead Assignments:		
	SW395-AJ-MMO-010 SVTT Mk 32 Mod 15	
	SW395-AQ-MMO-010 SVTT Mk 32 Mod 19	
	SW515-A0-PRO-020 Procedures Manual for SVTT	
	WFIP 98F	
2-5-6-3 ASW Auxiliary Systems		1.0 hour
Homework/Read Ahead Assignments:		
	NAVSEA SE376-AA-MMO-010	
	NAVESA SE362-D0-MMM-010	
	NAVSEA SE340-AH-OMI-010	
	WFIP 85.1F	
2-5-6-4 Marine Mammal Mitigation		1.0 hour
Homework/Read Ahead Assignments:		
	OPNAVINST 3100.6J Marine Mammal Incident Reports	
	C3F OPORD 201 Appendix 2 Annex L	
	USFF SPORTS Reporting Message DTG 231614ZMAY06	
	USFF PMAP Update Message DTG 131324ZDEC11	
2-5-6-5 NUWC Tour		8.0 hours
Homework/Read Ahead Assignments: None		
2-5-6-6 ASW Certification		1.0 hour
Homework/Read Ahead Assignments:		
	CNSP/CNSL INST 3361.2 ASW Cert	
	SFRM Sections for ASW	
	SFEM Sections for ASW	
	ATGL/ATGP Users Guide for ASW	
	CNSP/CNSL INST 4700.1A TSRA	
	ATG Toolbox	
	WFIP 123C	
2-5-6-7 SONAR Dome (WEPS Only)		1.0 hour
Homework/Read Ahead Assignments:		
	WFIP 79H	
2-5-6-8 DH Mentorship		1.0 hour
Homework/Read Ahead Assignments: None		
2-5-7 Weapons Certifications		
2-5-7-1 BMD Qualifications (BMDQ) (WEPS Only)		1.0 hour
Homework/Read Ahead Assignments:		
	CNSP/CNSL INST 8820.2 Series	

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	2-5-7-2 CMTQ (WEPS Only)	1.0 hour
	Homework/Read Ahead Assignments:	
	CNSP/CNSL INST 8820.1 Series	
	SFRM STW Section	
	SFEM STW Section	
	CNSP/CNSLINST 3500.10 READ-E Instruction	
	2-5-7-3 DH Mentorship	1.0 hour
	Homework/Read Ahead Assignments: None	
2-5-8 Combat Systems Readiness		
	2-5-8-1 Weapons Systems Alignments	1.0 hour
	Homework/Read Ahead Assignments:	
	Combat Systems Alignment Manual SW225-BN-CSA-010/OP2456	
	Combat Systems Alignment Theory SW225-AO-MMA-010	
	2-5-8-2 SOTS	0.5 hour
	Homework:	
	Review OCSOT PMS for your ship	
	2-5-8-3 Troubled Systems	1.0 hour
	Homework/Read Ahead Assignments:	
	NAVSEA NSWC Corona Division: TSP Handout	
	NAVSEA NSWC Corona Division: MRDB Handout	
	CNSF Readiness Kill Chain Tutorial	
	Proceedings May 2014 Readiness Kill Chain Article	
	2-5-8-4 CSTT and Combat Systems Light Off Orders	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-8-5 DH Mentorship	1.0 hour
	Homework/Read Ahead Assignments: None	
2-5-9 Fleet Readiness		
	2-4-4-4 Organizing PB4T	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-4-3-7 Introduction to Fleet OPORDS	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-9-3 Power Point and Briefing Seminar	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-9-4 Personnel Management	1.0 hour
	Homework/Read Ahead Assignments:	
	CNSF Watchstanding Guide CNSF INST 3500.5	
	CNSF Warfighting Serial 3 DTG 022254ZMAR15	
	2-5-9-5 CPO Interactions Seminar	1.5 hours

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	Homework/Read Ahead Assignments: None	
	2-5-9-6 DH Roundtable Discussion	1.5 hours
	Homework/Read Ahead Assignments: None	
	2-5-9-7 Supply Officer Seminar	1.0 hour
	Homework/Read Ahead Assignments: None	
	2-5-9-8 CO's Expectations	1.5 hours
	Homework/Read Ahead Assignments: None	
	2-5-9-9 Command Assessment Brief	1.0 hour
	Homework/Read Ahead Assignments:	
	Review CQE Bibliography	
	2-5-9-10 C2X/JTFX	1.0 hour
	Homework/Read Ahead Assignments:	
	Review CSG 4 and CSG 15 CAS Pages	
	2-5-9-11 WCS PBED	1.0 hour
	Homework/Read Ahead Assignments:	
	NWP 5.01 Ch 3-8	
FINAL PROJECT		
	Final Project Inbrief	1.0 hour
	Homework/Read Ahead Assignments: None	
	Final Project Preparations	12.0 hours
	Homework/Read Ahead Assignments: Varies	
	Group Sail	8.0 hours
	Homework/Read Ahead Assignments: None	
Assessments		
	Quiz 1	0.5 hour
	Quiz 2	0.5 hour
	Quiz 3	0.5 hour
	Practical Works	25.0 hours
	Practical Works Seminar	4.0 hours
	Exam Review	1.0 hour
	WCS BST Exam	4.0 hours
	WCS BST Exam Debrief	1.0 hour