

1-2 Information Operations

LCDR Harry Carver	carverhr@training.navy.smil.mil	841-4963
CTTC(SW/AW) James Gray	grayje@training.navy.smil.mil	841-6991

Homework: Assignments are required to be completed prior to the convening of the first class of the day. The exam will be administered in the afternoon as delineated in the class schedule. The exam covers the assigned homework, required reading and Computer Based Training assignments for that day, and may draw from all previous instruction.

Course Grade Weighting:

IO Exam	You will be expected to demonstrate mastery at the application, analysis, and synthesis levels of learning. Application involves applying knowledge to actual situations. Analysis requires you to recognize how different objects or ideas are interrelated by breaking them down to simpler parts. Synthesis involves arranging these simpler parts of ideas into a new whole that was not obvious before. These higher levels of cognitive learning require in-depth knowledge, and therefore, a different kind of preparation for exams, one that goes beyond simply memorizing course material.	90%
IO Quiz	A quiz will be administered at approximately the halfway point of the course. The quiz grade will account for 10% of the IO module score.	10%

Master IO Reference Library: R:\Maritime Warfare References
IO References: L:\N73 Lessons\LT\Warfare Fundamentals\IO\IO References

NKO Courses:

You are **required** to complete the following NKO (NIPR) course and provide completion certificates to the IO Cell Lead prior to taking the IO exam. Adequate time has been programmed into your schedule to complete these courses, which will complement the CBTs and Instructor Led Training. TRANET computers with NIPR access are located in the OMMS-NG Lab (W257) for your use.

- IPTR: Coordinating the Elements of Information Operations (IO) NPGS-IO12-1

1-2-1 Information Operations Concepts

	Topic	Time Req.
	1-2-1.1 Intro to IO and IWC Organization/Roles/Responsibilities (Instructor Led)	1.5hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1 Lesson 3 Topic 2	1 hr
	Required Reading:	
	NTTP 3-13.2 Navy IO Warfare Commander's Manual (Chapter 3)	1.0 hr
	1-2-1.2 External Communication Architecture Refresh (Instructor Led)	1.5hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s): N/A	
	Required Reading:	
	ACP-125(F) Allied Communications Procedures - Radiotelephone Procedures (Chapters 1 through 3, Chapter 6, Chapter 8)	1.5hr

	Suggested Reading:	
	ATP 1(D) Volume I Allied Maritime Tactical Instructions and Procedures (Chapter 4)	
	NTTP 6-02.8 Internet Tactical Chat in Support of Operations (Chapters 1 and 3)	
	APP 1(B) Allied Maritime Voice Reporting Procedures (Chapter 1 Section IV)	
	NTP 4(E) Naval Communications (Chapters 5, 7 and 8)	
	1-2-1-3 Intelligence and Cryptology (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1: Lesson 2 and 6	1hr
	Required Reading:	
	Navy wide OPTASK INTELLIGENCE dtg 071705Z OCT 09	30min
	Navy wide OPTASK CRYPTOLOGY dtg 101721Z JUL 09	30min
	TM 3-13.3-05 Comms EW for Surface Units	30min
	NTTP 3-13.14 Surface EW Guide (Chapter 3.12)	15min
	Suggested Reading:	
	NWP 3-53 Navy Psychological Operations (Chapter 4)	
	1-2-1-4 Operations Security (OPSEC) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1: Lesson 3: Topic 4	30min
	Required Reading:	
	Navy wide OPTASK IO dtg 151731Z May 06	30min
	NTTP 3-13.2 Navy Information Operation Warfare Commanders Manual (Chapter 4.9.2)	20min
	NTTP 3-54M Operations Security (OPSEC) (Chapter 2)	30min
	1-2-1-5 Computer Network Operations (CNO) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1: Lesson 3: Topic 7	30min
	Required Reading:	
	Navy wide OPTASK IO dtg 151731Z May 06	15min
	NTTP 3-13.2 Navy Information Operation Warfare Commanders Manual (Chapter 4.9.5)	15min
	NWP 3-63 Vol 1 Computer Network Operations (Chapters 3 and 4)	1hr
	Suggested Skimming:	
	1-2-1-6 Military Information Support Operations (MISO)/Psychological Operations (PSYOP) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1: Lesson 3: Topic 5	30min
	Required Reading:	
	Navy wide OPTASK IO dtg 151731Z May 06	15min
	NTTP 3-13.2 Navy Information Operation Warfare Commanders Manual (Chapter 4.9.3)	15min
	NWP 3-53 Navy Psychological Operations (Chapters 2, Chapter 3.11, and Chapter 3.13)	45min
	1-2-1-7 Military Deception (MILDEC) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1: Lesson 3: Topic 6	30min
	Required Reading:	
	Navy wide OPTASK IO dtg 151731Z May 06	15min
	NTTP 3-13.2 Navy Information Operation Warfare Commanders Manual (Chapter 4.9.1)	15min

	NTTP 3-58.2 Navy Military Deception (Chapter 2, Chapter 3)	1 hr
	1-2-1-8 Electronic Warfare (EW) (Instructor Led)	4hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1:Lesson 3: Topic 3	30min
	Required Reading:	
	Navy wide OPTASK EW	15min
	NTTP 3-51-1 Navy EW (Chapter 2, Chapter 3, Chapter 4.1-4.3, Chapter 7 and Appendix C)	1hr
	NTTP 3-13.14 Surface EW Guide (Chapter 2, Appendix A and Appendix B)	1hr
	TM 3-01.1-07 Single Ship Integrated Hardkill and Softkill in Antiship Missile Defense (Chapters 1 & 3)	1hr
	TM 3-13.1-09 ASMD Tactics against Anti Radiation Homing Missiles (Chapter 2 and Chapter 3))	1hr
	TM 3-51.1-05 Nulka Tactical Employment Guide (Chapter 3 and Chapter 4)	30min
	TM 3-51.1-07 Nulka in vicinity of High Value Units (Chapter 1 and Chapter 2)	30min
	1-2-1-9 Tactical Data Link (TDL) Design (Instructor Led)	4hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1:Lesson 4	1 hr
	Required Reading:	
	CJCSM 6120.01D Joint Multi Tactical Data Link (TDL) Operating Procedures (JMTOF) (Chapters 2 & 5)	30min
	Understanding LINK11 Guidebook (Chapter 1, Chapter 2 Section D, Chapter 6 & Chapter 7)	30min
	Understanding LINK16 Guidebook (Chapter 1, Chapter 3 Sections A and D, and Chapter 4	30min
	Suggested Reading:	
	http://cni.phdnswc.navy.smil.mil/common3/linkDescriptions/toc.xml	
	1-2-1-10 Common Tactical Picture-Common Maritime Picture (CTP-CMP) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1:Lesson 1 and Lesson 5 (Skip the sections referring to C2PC)	1 hr
	Required Reading:	
	http://cni.phdnswc.navy.smil.mil/ForceData/tdl Aspect Generators/cop tocmain.htm	30min
	Navy wide OPTASK CMP 031248Z Oct 12	30min
	1-2-1-11 Tactical Meteorology (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s): N/A	
	Required Reading:	
	NTRP 3-59.5 Tactical METOC Considerations for ASW Aircraft (Chapters 6, 8, and Appendix A)	1 hr
	Suggested Reading:	
	Navy wide OPTASK METOC dtg 151510Z MAY 09	
	1-2-1-12 Intelligence, Surveillance, Reconnaissance & Targeting (ISR&T) (Instructor Led)	1hr
	Homework/Read Ahead Assignments:	
	CBT Lesson(s):	
	Module 1:Lesson 3: Topic 1	30min
	Required Reading:	
	COMPASS CHECK - Countering PRC Open Ocean ISR	30min
	NIOC TM 3-13.2-06 Counter ISRT in the Littoral (Chapters 1 though 4)	1hr
	Suggested Reading:	

	http://www.fleetforces.navy.smil.mil/netwarcom/N3OPS/N36/N36-Nonreleasable/satvul/default.aspx	
	NIOC TM 3-13.2-06 Counter ISRT in the Littoral (Chapters 5 and 6)	
	1-2-1-13 Afloat Spectrum Management (Instructor-Led)	1hr
Homework/Read Ahead Assignments:		
	CBT Lesson(s): N/A	
	Required Reading:	
	NTTP 3-13.14 Surface EW Guide (Chapter 5)	15min
	NTTP 3-51-1 Navy EW (Chapter 3.4.4 and 3.4.5)	15min
	NIOC TM 3-13.3-05 Communications EW for Surface Units (Chapter 4.6)	10min
	Suggested Reading:	
	NTTP 3-13.2 Navy Information Operation Warfare Commanders Manual (Chapter 5)	