MARINE SAFETY: MT-4251

John Christensen Instructor of Marine Transportation



Course Objective: A study of the rules and regulations that govern marine inspection, lifesaving, firefighting, environmental pollution and hazardous materials. Prepare future licensed officers for shipboard responsibilities.

Learning Outcomes: candidates will demonstrate

- Facility with the CFR and other references.
- Understanding of human error, and biases in decision-making.
- Recognition of on-board hazards including HazMat certification
- An understanding of the regulatory environment, local, federal, national, and international, and the mariner's responsibility and culpability
- Familiarity with pollution prevention and regulations
- A knowledge of the development of structural and organizational fire protection
- The essentials of record keeping
- A basic understanding of piracy, terrorism, and ship security.

Grading policy:

1. Attendance at all classes is mandatory. Missing class or tardiness without prior Instructor approval will result in grade point reduction. Missing a quiz without prior instructor approval will result in a grade of zero. Students are responsible for all material presented in class even if officially excused. Officially excused exams may be made up by a comprehensive exam. A grade of less than... C- ... will result in non-compliance with USCG/STCW mandated competency standards and result in license track students repeating the course.

Students shall wait at least 25 minutes after the scheduled class start time for the instructor.

- 2. Office hours are established to allow students the opportunity to consult with the instructor. Please seek help immediately when you need it.
- 3. The Academic Code of Conduct will be strictly enforced.
- 4. No eating, drinking, smoking. Electronic devices must be off.
- 5. ACCOMODATIONS -- Mass Maritime is committed to providing reasonable accommodations to students with documented disabilities. Students who believe they may need accommodations in this class are required to contact Fran Tishkevich Disability Resource Coordinator, Phone ext: 2208: ftishkevich@maritime.edu, within the first two weeks of class. Remember, you must notify me, *in advance* if you require accommodations for class or testing.

6. Final Grades in this course will be determined as follows:

- A. Six Regular Tests (plus HAZMAT) averaged together account for 60% of final grade.
- B. Assignments, including work sheets begun in class: 20%
- C. The final exam (no exemptions) accounts for 20% of Final Grade.
- D. Unexcused absences are an automatic 5 point deduction from final grade.
- E. HAZMAT, week following immediately upon Coasties, requires a 70% for license, graduation, etc.
- F. The numerical average that corresponds to the USCG/STCW required passing grade of (C-) is 70%.

Required Course Materials for Marine Safety:

- 46 CFR parts 1-40, 70-89, 90-139, 156-165, 125-199, 199 (CFRs semester loan)
- 33 CFR parts 125-199, particularly subchapter "O"
- Marine Fire Prevention.., Brady (Semester loan),
- HAZMAT regulations handbook Keller(Semester loan),
- 49 CFR parts 171-185 (Hazardous Material Regulations)
- Tanker Operations by Mark Huber.
- Chemical Data Guide (Semester Loan)
- Thinking, Fast & Slow; Kahneman (also available as iBook)
- Access to Blackboard and the Internets

John Christensen

MT-4251 Marine Safety

A study of the rules and regulations that govern marine inspection, lifesaving, firefighting, and environmental pollution. This course prepares future licensed officers for shipboard responsibilities including: inspection of lifesaving and, firefighting equipment, the hazards of confined space entry, emergency situations, and pollution prevention and abatement. Case studies of marine casualties are used to apply the **concepts and theories** of marine safety. The course provides the student with a mix of **critical analysis**, **application**, and **communication**.

Contact Information

Office HA 320A Hours Wednesday 1100-1150 & 1300-1350

Phone extension: 1920

Email: jchristensen@maritime.edu, tankermate@gmail.com

Home phone: 508 693 0050

Cell phone: 508 662 1238 Contact me before you get in over your head. Same goes for all your

instructors—we can help you if you come to us.

	Lecture Sections 21 and 22									
-	Date		st	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lecture	Remarks	homework			
	Date	Day	Test	#	<u>Topic</u>					
Week	27-Feb	Mon		-	Orientation					
	28-Feb	Tue		1	It takes a calamity					
1	1-Mar	Thu		2	The Regulatory Environment		IMO report			
Week	6-Mar	Tue		3	Use and structure of the CFRs		Report due			
	8-Mar	Thu	1	4	Hazardous Material Regulations	A A PM Manhalan				
2 –					HMR, 49 CFR					
Week	13-Mar	Tue		5	The Titanic and its Aftermath					
	15-Mar	Thu		6	SOLAS & IMO	A STATE OF THE STA	Immersion suit report			
3					US Code to NVIC					
Week	20-Mar	Tue		7	Fire Case Studies		Report due			
-	22-Mar	Thu	2	8	Inspections					
4					Audits					
Week	27-Mar	Tue		9	SMS					
	29-Mar	Thu		10	Structural Fire protection					
5					Fire fighting CFRs		Report on MARPOL Annexes			
Week	3-Apr	Tue		11	Pollution		Report due			
	5-Apr	Thu	3	12	MARPOL					
6					US Regulations					
Week	10-Apr	Tue		13	CFRs on pollution					
7	12-Apr	Thu	-	14	CFRs on pollution					

	Lecture Sections 21 and 22										
	Date		Test		Lecture	Remarks	homework				
	Date	Day	Ĕ	#	Topic						
Week 8	17-Apr	Tue		15	Life Saving Equip	. 1					
	19-Apr	Thu	4	16	Sea Survival						
Week	24-Apr			17	Tanker Operations						
9	26-Apr	Thu		18	Enclosed Space Entry						
	ļ				CFR practice						
Week	1-May	Tue		19	Record keeping	-					
	3-May	Thu	5	20	Oil Record Book, Oil from Mach. spaces						
10											
Week	8-May	Tue		21	Human Error						
11	10-May	Thu		22	Security and Piracy						
<u> </u>											
Week	15-May	Tue	ies	23	Human Error						
12	17-May	Thu	Coasties	24	Human Error						
			ු පි								
Week	22-May	Tue		25	Hazmat Training						
13	24-May	Thu	6	26	Hazmat Training	WARP WARP WARP WARP WARP WARP WARP WARP					
			ı								
Week 14	29-May	Tue 			Monday Schedule						
	31-May	Thu		27	Security and Piracy						
	5-Jun	Tue		28	Local air/water pollution Regs						
Week	7-Jun	Thu		40	Local anywater poliution negs						
15	7-Jun	HIG	Finals								
	13-Jun	Wed	造			· · · · · · · · · · · · · · · · · · ·					