

UPDATE INSTRUCTIONS No. 1
for
MARINE ELECTRONICS ME101/102 and ME103 STUDENT MANUALS
1 January 2004

This update sheet contains a total of 31 corrections to the ME101/102 and ME103 Student Manuals that are needed to correct some typo errors and to provide improvements that were suggested by EMSCom committee members, instructors, and students to make this course material a better learning tool for our members. Our thanks to all for their suggestions and contributions.

ME101, Boat Electrical Systems

Item*	Chapter	Page	Para	Line	Comment
1.	2	21			Topic heading in Figure 17, second line. Change “OE” to “OR”.
2.	2	22	38	6	Delete “natural gray” and replace with “light blue”.
3.	2	29			Homework Question 6. In the question stem delete “appliances (not motors)” and replace with “electronic equipment”
4.	4	52	22	2	Change (Figure 29) to (Figure 30).
5.	4	52	22	3	Delete “DC” and replace with “AC”
6.	7	94			Homework Question 18. Delete this question in its entirety.
7.	7	94			Homework Question 19. Delete this question in its entirety.

ME102, Marine Radio Communications

Item#	Chapter	Page	Para	Line	Comments
1.	4	28	42		Add the following sentences to the end of this paragraph: “The FCC now requires that all license applications be accompanied with a FCC Registration Number (FRN). FRNs are obtained by submitting a CORES Registration Form which can be filled out on line at www.FCC.gov , or can be ordered by calling toll free 1-888-FCC-Call.”
3.	4	28	43	3	Change “Form 506-A” and “form 506” on this line to “Form 605”. The FCC replaced form 506 and many others with form 605 in March 2003
4.	4	28	44	3	Change Form 506 to Form 605
5.	4	28	45	8	Change FCC form 405-B to FCC Form 605.
6.	4	28	47	3	Change Form 506 to Form 605.
7.	4	28	47	9	Change Form 506 to Form 605.
8.	4	28	50	4	Change Form 502 to Form 605.
9.	4	29	56	3	Change Form 753 to Form 605
10.	4	31			Homework Question 5, Answer b. Change “no one” to “no one other than the addressee”
11.	4	32		3	Homework Question 17. Change the first sentence of this question to read: “You are operating your 45 foot powerboat off the East Coast of Florida and are planning to enter Bahamian ports

Item#	Chapter	Page	Para	Line	Comment
					and use your VHF marine radio during your two week cruise.”
12	5	36	25	5&6	Delete the last two sentences, and add: “This service is not presently available although the channels remain reserved for this service.”
13.	5	37			Table 2. At the bottom of the Table under”Weather Broadcast”, add: WX-8 162.550, WX-9 162.600, WX-10 162.625
14.	5	38	33	1	Change “Channels WX-1 through WX-7” to “Channels WX-1 through WX-10”
15.	5	39			Homework Question 8. Under Answer “c”, delete 12 nm and replace with 20 nm
16.	6	44	15	5	Between “ship” and “radio set” add: “is underway and the”
17.	6	44	16	1	Change the first line of this sentence to read “By listening on VHF channel 16 and MF 2185 kHz
18.	6	45	18		Delete the entire text of this paragraph and add the following: “Recreational vessels not equipped with DSC must maintain a watch on 156.00 MHz (Channel 16) whenever the vessel is underway and the radio is not being used to communicate. Those recreational vessels equipped with VHF-DSC equipment must maintain a watch on either 156.525 MHz (Channel 70) or VHF Channel 16 aurally whenever the vessel is underway and the radio is not being used to communicate.
19	7	63	25		Add the following to the end of this paragraph: “Recreational vessels voluntarily fitting GMDSS Subsystems must have their radios turned on and set to the proper watch channels while underway.”
20.	7	70			Homework Question 19. Delete this question in its entirety and renumber the remaining questions.

ME103, ELECTRONICS FOR NAVIGATION

Item#	Chapter	Page	Para	Line	Comment
1.	2	10	7		At the end of this paragraph add the following: The LCD display uses a sheet of LCD material between Two sheets of transparent material. The liquid crystals are normally white, and when swept electronically will turn black. The liquid crystals produce no illumination and must be illuminated either by daylight or artificial light.
2	5	42	8		Add the following to the end of this paragraph: “All of the data provided by the coded signals is needed by the GPS receiver to provide an accurate fix.
3.	5	44	16		Add to the end of the last sentence in this paragraph the following phrase: 95 percent of the time.”
4.	5	52			Homework Question 18. Delete the answer in “b” and replace with “the Federal Aviation Administration.”