

(4) Element 7: GMDSS radio operating practices. Questions concerning GMDSS radio operating procedures and practices sufficient to show detailed practical knowledge of the operation of all GMDSS sub-systems and equipment; ability to send and receive correctly by radiotelephone and narrow-band direct-printing telegraphy; detailed knowledge of the regulations applying to radio communications, knowledge of the documents relating to charges for radio communications and knowledge of those provisions of the International Convention for the Safety of Life at Sea which relate to radio; sufficient knowledge of English to be able to express oneself satisfactorily both orally and in writing; knowledge of and ability to perform each function listed in §80.1081 of this chapter; and knowledge covering the requirements set forth in IMO Assembly Resolution on Training for Radio Personnel (GMDSS), Annex 3.

(5) Element 7R: Restricted GMDSS radio operating practices. Questions concerning those GMDSS radio operating procedures and practices that are applicable to ship stations on vessels that sail exclusively in sea area A1, as defined in §80.1069 of this chapter, sufficient to show detailed practical knowledge of the operation of pertinent GMDSS sub-systems and equipment; ability to send and receive correctly by radio telephone and narrow-band direct-printing telegraphy; detailed knowledge of the regulations governing radio communications within sea area A1, knowledge of the pertinent documents relating to charges for radio communications and knowledge of the pertinent provisions of the International Convention for the Safety of Life at Sea; sufficient knowledge of English to be able to express oneself satisfactorily both orally and in writing; knowledge of and ability to perform each pertinent function listed in §80.1081 of this chapter; and knowledge covering the pertinent requirements set forth in IMO Assembly Resolution on Training for Radio Personnel (GMDSS), Annex 3.

(6) Element 8: Ship radar techniques. Questions concerning specialized theory and practice applicable to the proper installation, servicing and maintenance

of ship radar equipment in general use for marine navigational purposes.

(7) Element 9: GMDSS radio maintenance practices and procedures. Questions concerning the requirements set forth in IMO Assembly on Training for Radio Personnel (GMDSS), Annex 5 and IMO Assembly on Radio Maintenance Guidelines for the Global Maritime Distress and Safety System related to Sea Areas A3 and A4.

(b) A telegraphy examination (telegraphy Elements) must prove that the examinee has the ability to send correctly by hand and to receive correctly by ear texts in the international Morse code at not less than the prescribed speed, using all the letters of the alphabet, numerals 0-9, period, comma, question mark, slant mark, and prosigns *AR*, *BT*, and *SK*.

(1) Telegraphy Element 1: 16 code groups per minute.

(2) Telegraphy Element 2: 20 words per minute.

[58 FR 9124, Feb. 19, 1993, as amended at 69 FR 64671, Nov. 8, 2004; 73 FR 4479, Jan. 25, 2008; 78 FR 23154, Apr. 18, 2013]

§ 13.207 Preparing an examination.

(a) Each telegraphy message and each written question set administered to an examinee for a commercial radio operator license must be provided by a COLEM.

(b) Each question set administered to an examinee must utilize questions taken from the applicable Element question pool. The COLEM may obtain the written question sets from a supplier or other COLEM.

(c) A telegraphy examination must consist of a plain language text or code group message sent in the international Morse code at no less than the prescribed speed for a minimum of five minutes. The message must contain each required telegraphy character at least once. No message known to the examinee may be administered in a telegraphy examination. Each five letters of the alphabet must be counted as one word or one code group. Each numeral, punctuation mark, and prosign must be counted as two letters of the alphabet. The COLEM may obtain the telegraphy message from a supplier or other COLEM.