

PIRFO Draft Competency Standards

NEW PIRFO 3 - 4.02	Demonstrate knowledge of the use and function of electronic communications equipment commonly installed on fishing vessels
<p>Prerequisites: nil</p> <p>Descriptor</p> <p>This module requires that electronic communications equipment found on fishing vessels can be used to report routine information and data as required, and can be used to report distress in the event of an emergency.</p> <p>Certification in the operation of VHF and MF/HF radios from recognised training providers is an acceptable equivalent for the assessment criteria listed below concerning the operation of such equipment</p>	
Learning Outcomes	Assessment Criteria
<p>1. Understand the regional regulations governing the use of marine radio</p>	<p>1.1 Includes control of distress traffic, use of call signs, silence periods, radio watch, voyage reports, secrecy of correspondence, transmissions in harbours, testing a radio apparatus, interference</p> <p>1.2 The use of the international phonetic alphabet is demonstrated as required for callsigns</p>
<p>2. Set up a radio telephone to transmit and receive</p>	<p>2.1 Frequencies selected are appropriate for the equipment, nature of transmission, and time of day.</p> <p>2.2 Radio telephone is set up for routine watchkeeping</p>
<p>3. Distress, urgency and safety messages are transmitted and responded to in accordance with regional requirements</p>	<p>3.1 The power requirements of VHF broadcasts are described in terms of the reception range</p> <p>3.2 The reception range of radio communications in the MF, and HF frequencies is described in terms of the time of day and solar cycle</p> <p>3.3 Distress, urgency and safety messages are communicated in accordance with requirements</p> <p>3.4 Responses to distress, urgency and safety messages are managed in accordance with requirements</p>
<p>4. Show knowledge of the means to send voice, data and text messages via electronic communications equipment found aboard fishing vessels</p>	<p>4.1 Descriptions identify the principal functions of satellite communications to send routine written, voice and data reports via email, telephone and facsimile.</p>

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Evidence and Assessment Guide

Context and Method of assessment

Assessment can be conducted at the workplace, or in a simulated workplace environment or on an appropriate vessel

The following assessment methods are suggested:

- written or oral short answer testing
- practical exercises
- project work or assignments
- work in small groups
- observation of practical demonstration

Resources for assessment may include:

- audio/visual materials
- site inspections
- videos and DVDs
- learning materials
- VHF and MF/HF radios
- GMDSS equipment or simulator

Underpinning knowledge

Candidates are required to demonstrate knowledge of the relevant regulations governing use of radios; set up a radio telephone for operation in the maritime mobile service; operate a very high frequency (VHF) radio telephone in the maritime mobile service; and operate a medium frequency (MF), and high frequency (HF) radio telephone in the maritime mobile service.

This module is intended for fisheries observers who need to be able to use the basic features of established satellite communications equipment to routinely report aspects of their role in monitoring vessel position and catch.

Learning Outcome	Evidence Guide
1. Understand the regional regulations governing the use of marine radio	1.1 This Includes control of distress traffic, use of call signs, silence periods, radio watch, voyage reports, secrecy of correspondence, transmissions in harbours, testing a radio apparatus, interference 1.2 Use the international phonetic alphabet to describe callsigns and vessel names
2. Set up a radio telephone to transmit and receive	2.1 Select frequencies appropriate for the equipment, nature of transmission, and time of day. 2.2 Set up radio telephone for routine watchkeeping
3. Distress, urgency and safety messages are transmitted and responded to in accordance with regional requirements	3.3 Distress, urgency and safety messages are communicated in accordance with requirements 3.4 Responses to distress, urgency and safety messages are managed in accordance with requirements

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4. Show knowledge of the means to send voice, data and text messages via electronic communications equipment found aboard fishing vessels	4.1 Describes the principal functions of satellite communications used to send routine written, voice and data reports via email, telephone and facsimile.
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Practical skills

This module requires practical use of VHF and MF/HF radios to send routine and emergency transmissions

Critical aspects of evidence

Assessment must confirm the ability to use radios in routine and emergency situations, and use the basic features of established satellite communications equipment to routinely report aspects of their role in monitoring vessel position and catch information