

PIRFO Draft Competency Standards

PIRFO 3 - 6.04	Demonstrate an ability to accurately estimate volumes and weights of fish and other marine species and collect verified weight and measurement information in accordance with an agreed protocol
<p>Prerequisites:</p> <p>Descriptor</p> <p>This module requires candidates to accurately measure the weight and length of fish according to protocols established by the regional fisheries observer program, and produce best estimates weights and ratios in a range of purse seine fisheries applications: (individual fish; amount of bycatch; amount of discards; total catch in set; ratio of species in set; catch retained on board; vessel capacity)</p>	
Learning Outcome	Assessment Criteria
1. Demonstrate knowledge of the established protocols and methods for accurately measuring the length of Pacific fish species	<p>1.1 Identify the method established by the regional observer program for measuring fish length according to species type and anatomical features</p> <p>1.2 Accurately measure fish using the method appropriate to species type</p> <p>1.3 Fish length measurements are recorded using the data format established by the regional fisheries observer program</p>
2. Demonstrate knowledge of the established protocols and methods for accurately measuring the weight of Pacific fish species	<p>2.1 Identify the method established by the regional observer program for measuring fish weight</p> <p>2.2 Accurately weigh fish using the appropriate method</p> <p>2.3 Fish weight measurements are recorded using the data format established by the regional fisheries observer program</p>
3. Estimate weights, volumes and ratios in a range purse seine fisheries applications	<p>3.1 Estimate weights, volumes and ratios in a range of purse seine fisheries applications:</p> <ul style="list-style-type: none"> • individual fish • amount of bycatch • amount of discards • total catch in set • ratio of species in set • catch retained on board • vessel hold capacity

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Evidence and Assessment Guide

Context and Method of assessment

Assessment is to be conducted at the workplace or in a simulated workplace environment.

The following assessment methods are suggested:

- practical exercises
- written or oral short answer testing
- observation of practical demonstration.

Resources for assessment may include:

- Regional observer guides and standards on weights and measurement
- Standard mathematical texts on volumes and capacity
- Tapes, callipers, and scales
- Fish species as available

Underpinning knowledge

Candidates are required to demonstrate knowledge of correct measurement and weight procedures as specified in Regional Observer Program standards.

It is not intended that candidates should have rote knowledge of particular species measurement requirements, but they must be able to demonstrate use of reference guides to determine the appropriate measurement procedures.

Learning Outcome	Evidence Guide
<p>1. Demonstrate knowledge of the established protocols and methods for accurately measuring the length of Pacific fish species</p>	<p>Candidates need to use the correct measuring methodology as specified in Regional Observer Program standards:</p> <ul style="list-style-type: none"> • to measure fish length accurately • to record the measurements on a specified logsheet. <p>This requires a demonstrated ability to use standard measurement guides to determine the appropriate measuring procedure.</p>
<p>2. Demonstrate knowledge of the established protocols and methods for accurately measuring the weight of Pacific fish species</p>	<p>Candidates need to use the correct weight measurement methodology as determined in Regional Observer Program standards to:</p> <ul style="list-style-type: none"> • to weigh fish accurately • to record the weights on a specified template <p>This requires a demonstrated ability to use standard weight measurement guides to determine the appropriate measuring procedure.</p>
<p>3. Estimate weights, volumes and ratios in a range purse seine fisheries applications</p>	<p>Candidates need to demonstrate knowledge and practical use of accepted procedures and practices to provide best estimate weights, volumes and ratios in a range of purse seine fisheries applications:</p> <ul style="list-style-type: none"> • individual fish • amount of bycatch • amount of discards • total catch in set • ratio of species in set • catch retained on board • vessel hold capacity

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Practical skills

The practical skills needed to perform work to the required standard include:

- The ability to accurately collect and record weight and measurement data in accordance with Regional Observer Program protocols
- The ability to calculate the volume of different shapes

Literacy skills used for:

- Interpretation of measurement standards
- Collection of data and information
- Accurate completion of forms

Numeracy skills used for:

- Measurement
- Weight measurement
- Estimating volumes

Critical aspects of evidence

Assessment must confirm an ability to:

- Accurately measure fish according to a specified procedure
- Accurately collect and record weight measurements
- Accurately calculate the volume of different shapes
- Estimate weights and volumes using practices established by the Regional Observer Program

Assessment must confirm knowledge of:

- Correct measurement and weight procedures as determined by Regional Observer Program standards
- Accepted practices used to estimate weight and volume