



Australian Government

Department of Education, Employment and Workplace Relations

SFIOBSV303B Collect routine fishery management data

Release: 1

SFIOBSV303B Collect routine fishery management data

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit of competency involves collecting and recording routine fishery management data by following given procedures. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.
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Application of the Unit

Application of the unit	This unit has application to observers collecting routine fisheries management data. It may be collected during and/or after fishing operations. All enterprise or workplace procedures and activities are carried out according to <i>relevant government regulations, licensing and other compliance requirements</i>, including <i>occupational health and safety (OHS) guidelines</i> and <i>ecologically sustainable development (ESD) principles</i>. Appropriate <i>personal protective equipment (PPE)</i> is selected, checked, used and maintained.
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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Collect data efficiently	1.1. Data requirements are identified. 1.2. Valid data is collected as soon as practical during and/or after fishing operations. 1.3. Estimations are made, where required.
2. Record data accurately	2.1. Identifying information is entered on record sheets to ensure traceability of data. 2.2. Valid data is entered on record sheets accurately, legibly and without gaps. 2.3. Errors are rectified correctly. 2.4. Data sheets are checked for completeness and dispatched, as required.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- identifying a range of species, other seafood/aquatic products and equipment, and resources relevant to the enterprise, sector or geographic area
- measuring and estimating catch, effort and other variables that may explain the outcomes of fishing activity.

Literacy skills used for:

- completing data sheets
- reading instructions.

Numeracy skills for:

- estimating and calculating:
 - distance
 - length
 - number
 - time
 - weight.

REQUIRED SKILLS AND KNOWLEDGE**Required knowledge**

- basic biological features of target species and likely by-catch
- ESD principles and practices
- scientific principles that influence the design of data collection systems
- commercial fisheries and unique aspects relevant to the enterprise, sector or geographic area
- purposes of fisheries management data collection
- work regime and typical equipment used to collect data for target species, product and likely by-catch.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment evidence required to demonstrate competence in this unit

Assessment must confirm the ability to:

- accept responsibility for the validity of data and records
- collect and record fisheries management data in an accurate and timely manner, and in accordance with pre-set requirements.

Assessment must confirm knowledge of:

- biological features of target species and likely by-catch
- procedures and tools to collect required data on target species and likely by-catch.

Context of and specific resources for assessment

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

Resources may include:

- data collection forms.

Method of assessment

The following assessment methods are suggested:

- completed work documents
- observation of data collection activities
- third-party reports from fishery managers and scientific personnel
- written or oral short-answer questions to assess underpinning knowledge.

Guidance information for assessment

This unit may be assessed holistically with other units in the Observer Skill Set:

- SFIOBSV301B Monitor and record fishing operations
- SFIOBSV302B Collect reliable scientific data and samples
- SFIOBSV304B Analyse and report onboard

EVIDENCE GUIDE

observations.

Range Statement**RANGE STATEMENT**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant government regulations, licensing and other compliance requirements are followed including:

- biodiversity and genetically modified organisms
- biosecurity, translocation and quarantine
- Australian Quarantine Inspection Service (AQIS) and other import requirements
- business or workplace operations, policies and practices
- correct marketing names and labelling
- ESD principles, environmental hazard identification, risk assessment and control
- fisheries or aquaculture regulations, permits and licences relevant to the area
- health and welfare of aquatic animals
- Indigenous land rights and cultural activities, including fishing by traditional methods
- maritime and occupational diving operations, safety at sea and pollution control
- OHS hazard identification, risk assessment and control.

OHS guidelines may include:

- appropriate workplace provision of first aid kits and fire extinguishers
- codes of practice, regulations and/or guidance notes which may apply in a jurisdiction or industry sector
- enterprise-specific OHS procedures, policies or standards
- hazard and risk assessment of workplace, maintenance activities and control measures

RANGE STATEMENT	
	• induction or training of staff, contractors and visitors • safe lifting, carrying and handling techniques, including manual handling, and the handling and storage of hazardous substances • safe systems and procedures for outdoor work, including protection from solar radiation, fall protection, confined space entry and the protection of people in the workplace • the appropriate use, maintenance and storage of PPE.
ESD principles may include:	• applying animal welfare ethics and procedures • control of effluents, chemical residues, contaminants, wastes and pollution • maintaining biodiversity by sustainable fisheries or broodstock/seedstock collection • reducing energy use • improving energy efficiency • reducing emissions of greenhouse gases • reducing use of non-renewable resources • increasing use of renewable, recyclable and recoverable resources • undertaking environmental hazard identification, risk assessment and control.
PPE may include	• buoyancy vest or personal floatation device (PFD) • gloves, mitts or gauntlets, and protective hand and arm covering • insulated protective clothing for freezers or chillers and refrigeration units • non-slip and waterproof boots (gumboots) or other safety footwear • personal locator beacon or Emergency Position Indicating Radio Beacon (EPIRB) • protective outdoor clothing for tropical conditions • safety harness • sun protection (e.g. sun hat, sunscreen and sunglasses) • waterproof clothing (e.g. wet weather gear).
Data requirements may include:	• catch retained and discarded • environmental conditions:

RANGE STATEMENT	
	• bottom type • pH • phase of moon • temperature • tides and currents • fishing effort: • bait • hook size • longline rigging • snood length • fishing methods • gonad state • location (latitude and longitude) and distance from significant port of landmark • measurements • number and species of by-catch, including per shot and per day • number and species of seabirds and marine mammals • quantity and species of catch: • number • per day • per shot • percentage of bin • weight • sampling • sex of fish • size • time and date • vessel characteristics: • communications equipment • electronic equipment • horsepower • length.
Estimations may include:	• distance • gonad state • quantity, including number and total or percentage weight of species • seabird activity:

RANGE STATEMENT	
	• distance from vessel • diving • level of interest or disinterest • numbers • species • sex • size, including length and weight of species.
Record sheets may include:	• company initiated reports • logbooks that may be required as a condition of a permit • receival dockets • sampling sheets for industry research purposes • specific research project data sheets.

Unit Sector(s)

Unit sector	Observer operations
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Co-requisite units

Co-requisite units	

Competency field

Competency field	
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