

SFIPROC502C Produce technical reports on seafood processing systems

Release: 1



SFIPROC502C Produce technical reports on seafood processing systems

Modification History

Not Applicable

Unit Descriptor

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Unit descriptor	This unit of competency involves producing accurate flow
	diagrams detailing the sequence of activities employed in
	commercial processing or manufacturing of seafood
	products. It includes the need to consider regulations
	impacting on the way food is manufactured and to analyse
	specific activities on the basis of chemical, physical,
	microbiological and energy considerations relating to
	product specifications.
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Licensing, legislative, regulatory or certification requirements may apply to this unit. Therefore it will be necessary to check with the relevant state or territory regulators for current licensing, legislative or regulatory requirements before undertaking this unit.

Application of the Unit

Application of the unit All enterprise or workplace procedures and activities are carried out according to relevant government regulation licensing and other compliance requirements, includin occupational health and safety (OHS) guidelines, food safety and hygiene regulations and procedures and ecologically sustainable development (ESD) principles
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Licensing/Regulatory Information

Refer to Unit Descriptor

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Pre-Requisites

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

ELEMEN	IT	PERFORMANCE CRITERIA
Produce detailed process flow diagrams		1.1.Flow diagrams are produced in a form consistent with product specifications, including clearly defined commencement and conclusion points.
		1.2. Flow diagrams are processed, utilising consistent symbols and language.
		1.3. Processing activities requiring control are nominated on the flow diagram with tolerances clearly identified.
		1.4. Inputs into the process are clearly identified on the diagram.
	y and quantify requirements	2.1. Analyses of processing systems are produced to determine energy efficiency.
	vant stages of oduction	2.2. Conclusions from analyses are used to review processing parameters.
3. Determine <i>microbiological factors</i> relating to the production process	3.1.Reports are prepared to justify the inclusion of each microbiological parameter of the product specification.	
	3.2. Microbiological specifications for raw materials outline the consequences of non-conformance.	
		3.3. Reports identify all stages in the process which have microbiological implications.
physica	chemical and all aspects of oduction	4.1.Reports are prepared to justify the inclusion of each chemical and physical parameter of the product specification.
proces	process	4.2. The chemical and physical specifications for raw materials outline the consequences of non-conformance.
		4.3. Reports identify all stages in the process which have chemical and/or physical implications.
5. Determine <i>packaging</i> and storage	5.1.Reports detailing the parameters for product packaging are prepared.	
	conditions required for seafood product	5.2. General and specific product storage parameters or requirements are identified.
		5.3. Packaging and/or storage parameters match the product specifications.

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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- collecting, recording and analysing data
- communicating technical requirements to staff in an understandable format
- communicating with work teams and managers
- coordinating activities, supplies and processes
- giving attention to detail
- identifying and monitoring critical control points
- · identifying skill gaps in processing activities
- interpreting regulations, standards and specifications
- optimising a range of processing equipment
- planning, including production planning
- solving problems
- scheduling tests.

Literacy skills used for:

- compiling reports
- completing complex forms
- interpreting technical documents/publications
- reading and interpreting information, including specifications, standards and regulations
- recording and interpreting data.

Numeracy skills used for:

- calculating averages and/or percentages
- calculating production data
- calculating temperature and other thermal requirements
- estimating time, volume, flows and pressures
- estimating safe working loads.

Required knowledge

- corrective actions allowable within the requirements of the enterprise food safety plan
- production and processing systems consistent with the scale of the enterprise
- production and process planning and organisation consistent with the scale of the enterprise
- product quality parameters described by the enterprise food safety plan and any

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REQUIRED SKILLS AND KNOWLEDGE

relevant regulations, including those for food product, packaging, labelling and storage

• species typically processed by the enterprise.

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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 Assessment must confirm the ability to: evidence required to demonstrate analyse the operation of a production unit and to competence in this unit develop recommendations to improve the volume and quality of outputs against product specifications, as well as satisfying the needs of the enterprise OHS policies and the requirements of food safety regulations. Assessment must confirm knowledge of: requirements of HACCP and the food safety plan enterprise OHS policy and procedures process parameters, including safe working practices, food safety and environmental requirements the energy consumption of current and alternative process methods causes of product contamination and/or cross-contamination significance of, and methods for, controlling contamination within the process production scheduling, batch or recipe instructions, specifications and identifying process control points equipment operational parameters process control instrumentation sampling and test schedules cleaning and sanitation schedules routine preventative maintenance requirements documentation, recording and reporting requirements enterprise product specifications. Context of and specific resources for Worksites used for assessment must comply with

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assessment

relevant legislation, industry standards and/or practices.

Equipment used should be representative of that used in the workplace. Procedures and documentation used should be those which would be used typically in the workplace. Compliance with statutory OHS, food safety.

EVIDENCE GUIDE		
	export/import inspection, hygiene and/or environmental requirements relevant to the seafood industry should be emphasised.	
	Resources may include:	
	 cleaning and sanitation schedules enterprise standard operating procedures (SOP's), 	
	including corrective actions and material safety data sheets (MSDS)	
	equipment representative of that used in the workplace	
	food safety and other relevant technical standards, including microbiological data	
	procedures and documentation used typically in the workplace	
	process documentation	
	• product specifications, control points and processing parameters.	
Method of assessment	The following assessment methods are suggested:	
	project (work or scenario based)workplace documentation, including technical reportswritten or oral questions.	
Guidance information for assessment	This unit may be assessed holistically with other units within a qualification.	

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

- ESD principles, environmental hazard identification, risk assessment and control
- food safety, Hazard Analysis Critical Control

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RANGE STATEMENT

requirements may include:

- Point (HACCP), hygiene and temperature control along chain of custody
- imports quarantine and inspection, and importing approved arrangements for Australian Quarantine Inspection Service (AQIS), Australian Customs Service (ACS) and Biosecurity Australia (BA)
- land, buildings and vehicles:
 - buildings and structures design and appearance, constructions and additions
 - poaching, trespass and theft
 - road laws for use of motor vehicles, bikes, trucks and other transport equipment
 - use of firearms
 - use of utilities, including water, natural gas, electricity and sewage
 - water or land lease, tenure or ownership and use
- business or workplace operations, policies and practices:
 - commercial law, including fair trading and trade practices
 - consumer law
 - corporate law, including registration, licensing and financial reporting
 - disability policies and practices
 - equal opportunity, anti-discrimination and sexual harassment
 - industrial relations and awards, individual employment contracts and share of catch agreements
 - jurisdictional variations
 - superannuation
 - taxation
 - trade practices
 - warnings and dismissals
 - worker's compensation
- OHS hazard identification, risk assessment and control
- product quality assurance:
 - correct naming and labelling (e.g. country

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RANGE STATEMENT	
	of origin, Australian Fish Names Standard and eco-labelling)
	correct quantities, sizes and other customer requirements
	third-party certification (e.g. Australian Grown and ISO 14001:2004 Environmental management systems.
OHS guidelines may include:	 appropriate workplace provision of first aid kits and fire extinguishers clean, uncluttered, hygienic workplace 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 and maintenance activities and control measures induction or training of staff, contractors and visitors in relevant OHS procedures and/or requirements to allow them to carry out their duties in a safe manner OHS training register 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 systems and procedures for the safe maintenance of property, machinery and equipment, including hydraulics and exposed moving parts the appropriate use, maintenance and storage
Food safety and hygiene regulations and procedures may	of PPE.Australian Shellfish Sanitation programdisplay, packaging and sale of food, including
include:	seafood and aquatic productsequipment design, use, cleaning and maintenance
	 exporting requirements, including AQIS Export Control (Fish) orders handling and disposal of condemned or

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RANGE STATEMENT	
	 recalled seafood products HACCP, food safety program, and other risk minimisation and quality assurance systems location, construction and servicing of seafood premises people, product and place hygiene and sanitation requirements Primary Products Standard and the Australian Seafood Standard (voluntary) processing, further processing and preparation of food, including seafood and aquatic products product labelling, tracing and recall receipt, storage and transportation of food, including seafood and aquatic products requirements set out in Australian and New Zealand Food Authority (ANZFA) Food
	Standards Code and state and territory food regulations temperature and contamination control along chain of custody.
ESD principles may include:	 controlling the use and recycling of water, and managing water quality and quantity increasing use of renewable, recyclable and recoverable resources managing environmental hazard identification, risk assessment and control
	 managing imported products quarantine and inspection, facility biosecurity, translocation of livestock and genetic material, and health certification
	 managing, controlling and treating effluents, chemical residues, contaminants, wastes and pollution minimising noise, dust, light or odour emissions planning environmental and resource
	 efficiency improvements preventing genetically modified organisms and live cultured or held organisms from escaping into environment reducing emissions of greenhouse gases reducing use of non-renewable resources

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RANGE STATEMENT	
	reducing energy use and introducing alternative energy sources.
Processing activities requiring control may include:	 energy efficiency of the process enterprise HACCP plan product specifications skills required to process product to the required specification the requirements of food safety standards.
Energy requirements may include:	 component composition heat/energy efficiency heating/cooling rates material temperature product or material flow rate storage conditions required for finished product.
Microbiological factors may include:	the measurement of pathogenic and spoilage microorganisms present in seafood and the processes for maintaining safe levels during all processing stages.
Chemical and physical aspects may include:	 determining the presence or absence of chemical contaminants methods to exclude physical contamination temperature and other environmental conditions necessary to ensure food safety the enterprise HACCP plan.
Packaging and storage conditions may include:	 customer requirements enterprise capacity to accommodate finished product food standards and other technical standards importing or exporting country requirements product specifications regulations relating to labelling and/or packaging.

Unit Sector(s)

Unit sector	Seafood processing
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Co-requisite units

Co-requisite units	

Competency field

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