

Australian National Training Authority Food Processing Industry

FDF 98

Biscuits Competency Units

NATIONAL FOOD INDUSTRY TRAINING COUNCIL

Qualification

Code

Certificate III in Food Processing Certificate II in Food Processing Certificate I in Food Processing FDF30198 FDF20198 FDF10198

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	Locate industry and company products and
FDF BIDC1 A	processes (Biscuits)

Descriptor This is a specialist unit that has been customised for the biscuit sector. It covers the products and processes used in the workplace

Range of variables

- Processes and procedures are carried out within company policy and procedures and legislative requirements
- Biscuit processes depend on product type but typically include ingredient preparation, dispensing, cream/filling preparation, dough preparation, forming, baking, combining. It may also include extrusion, toasting and enrobing. Finished products is cooled, wrapped and packed ready for despatch
- Stages refer to functions or activities in the receivals, production, packaging and despatch processes

Element	Performance criteria	Evidence guide – Part A
Identify products and quality requirements	Company product range is identified Quality requirements of final products are identified in accord with company	Part A of the Evidence guide identifies the knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence Guide outlines how this guide is to be applied. It should be read in conjunction with the Range of variables
Identify and locate production and packaging processes	Raw materials and related handling systems are located and operated as required Production and packaging stages and processes are identified Equipment used for each stage is located	 Ability to: access workplace information to identify materials and production requirements identify and locate materials used in the work process identify and location production and/or packaging stages and process in the workplace comply with OHS and food safety requirements when moving around the workplace
		 Underpinning knowledge: range of final products produced by the company quality requirements/specifications for final products consequences of product failing to meet quality requirements stages and processes used to manufacture and package product basic purpose of equipment used at each stage

Element	Performance criteria	Evidence guide – Part A
		 outputs at each stage of the process
		 raw materials/consumables used
		 preparation, packaging, handling and storage of finished product prior to sale
		 OHS, quality, food safety and environmental requirements relating to own work

Evidence guide – Part B

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the
 assessee can achieve the workplace outcomes described in the Performance criteria, including
 demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to describe biscuit processing products and processes given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production systems, stages and processes
- raw materials, in-process and finished product requirements and/or specifications

Relationship to other units

Co-requisites:

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food industry

- Industrial Communication A
- Calculations A
- Occupational Health & Safety A
- Quality Assurance A
- Food Safety A (Hygiene and Sanitation A)

Locate industry and company products and processes

FDF BIPB1 A Prepare non-bulk ingredients

Descriptor This is a specialist unit that has been developed for biscuit processing sector. It includes the procedures for weighing and measuring non bulk ingredients

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, and production schedules
- Preparation equipment may include weighing and measuring equipment, load shifting and drum lifting equipment, trolleys, bags, buckets and storage containers. It also includes personal protective equipment such as goggles, gloves, breathing masks and the use of fume cabinets as required
- Non bulk ingredients may include wet non chemical ingredients (syrup, butter) or dry chemical ingredients (salt, spices, skim milk powders, flavours)
- Services may include power, and water
- Inspection/monitoring is typically visual to confirm appearance of product
- Information systems may be print or screen based

Element	Performance criteria	Evidence guide
Prepare the ingredient preparation process for	Ingredients are transferred and available to meet	This part of the evidence guide identifies
operation	production and recipe specifications	the skills and knowledge to be
	Services are confirmed as available and ready for	demonstrated to confirm competence for
	operation. Equipment is checked and	this unit. The Assessment guide and
ready for use	context following, outlines how this guide	

Weigh and or measure ingredients	Ingredients are weighed/measured to specification	is to be applied. It should be read in conjunction with the Range of variables.
	Ingredients are placed in containers/bags, labelled and stored to meet batch and recipe requirements Out-of-specification product, process and equipment performance is identified, rectified and/or reported Waste generated by the process is monitored and cleared as required	 Demonstrated ability to: access workplace information to identify production requirements. This includes using ingredient preparation sheets to identify: required ingredients item number product type number of mixes required weights of ingredients required confirm supply of necessary product and services. This includes installing new drums/tanks of product as required and ensuring supply of clean and dry containers select fit and use personal protective clothing and or equipment liaise with other work areas confirm equipment status and condition. This may include selection and taring of electronic scales weigh/measure ingredients. This includes labelling and placing product into ingredients box on trolleys (cont)

Element	Performance criteria	Evidence guide
Clean instrumentation	Weighing, and measuring	Demonstrated ability to (continued)
and dispose of waste	equipment is cleaned according to company procedures	 monitor the process and equipment operation to identify out-of-specification results or non- compliance. This can involve monitoring for:
Record information	Waste is collected treated and disposed or recycled according to company procedures Workplace information is	 Iumps/contaminants ingredient shortages batch requirements take corrective action in response to out-of-specification results or non-compliance
	format	 report and record corrective action as required monitor supply and flow of product to and from the process. complete relevant workplace documentation
		 sort, collect, recycle or dispose of inedible offal and waste
		 prepare equipment for cleaning
		 record workplace information
		 maintain work area to meet housekeeping standards
		Underpinning knowledge:
		 recipe and batch specifications
		 non bulk ingredients used
		 key features of the preparation operation
		 links to related processes
		 specifications, procedures and operating parameters for weighing and measuring ingredients. This includes procedures for selecting and taring scales and the use of check weights to ensure scales are accurate
		 quality parameters for ingredients
		 equipment purpose and operation
		 production requirements and schedules
		 labelling requirements and purposes
		 services used
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures for and responsibility for reporting problems
		 environmental aspects, impacts and controls cleaning, care and storage of equipment and instrumentation used
		 housekeeping requirements
		 waste handling requirements and procedures recording requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to weigh and measure ingredients given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- ingredient preparation sheets and specifications
- non bulk ingredients and additives
- production schedule, batch/recipe instructions
- measuring/weighing equipment
- services
- personal protective equipment and clothing
- cleaning schedule as required
- record keeping system

Relationship to other units

Co-requisites:

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing industry

- Industrial Communication A
- Calculations A
- Occupational Health and Safety A
- Quality Assurance A
- Food Safety A (Hygiene and Sanitation A)

Dispense non-bulk ingredients (Biscuits)

Descriptor

FDF BIDP2 A

This is a specialist unit that has been developed for biscuit processing sector. It covers the dispensing and blending of non bulk ingredients used in the manufacture of biscuits

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, and production schedules, batch/recipe instructions and ingredient preparation sheets
- Materials include wet and dry non bulk ingredients and can be highly concentrated materials such as colours, flavours, enzyme powders, preservatives or additives
- Equipment may include weighing and measuring equipment, mixing/blending tanks, sieves, storage tanks, containers, bags and bag sealers. It also includes personal protective equipment such as goggles, gloves, breathing masks and the use of fume cabinets as required
- Confirming status of measuring instrumentation may include checking that instrumentation meets cleaning and sanitation requirements and is measuring accurately. This can involve simple calibrations and checking calibration
- Control points refer to those key points in a work process which must be monitored and controlled. This includes food safety (critical), quality and regulatory control points as well as inspection points
- Weighing and measuring typically involves the use of highly accurate instrumentation such as high accuracy scales, top hand balance, dispensary instrumentation
- Weighing and dispensing may be automatically or manually controlled
- Services may include power, and water
- Information systems may be print or screen based
- Work may involve exposure to chemicals, dangerous or hazardous substances.

Element	Performance criteria	Evidence guide
Prepare dispensing process for operation	Ingredients are transferred and available to meet	This part of the evidence guide identifies
	production and recipe specifications	the skills and knowledge to be
	Services are confirmed as available and ready for	demonstrated to confirm competence for
	operation.	this unit. The Assessment guide and
Measuring and weighing equipment is checked and ready for use		

Measure and/or weigh ingredients	Materials are dispensed and labelled to meet batch/recipe requirements	context following, outlines how this guide is to be applied. It should be read in
	Ingredients are placed in	
	containers/bags, labelled and stored to meet batch and recipe requirements	conjunction with the Range of variables.
		Domonstrated ability to:
		 access workplace information to identify production requirements. This includes using ingredient preparation sheets to identify: required ingredients when a blend/pre-mix is required product type number of mixes required weight and type of ingredient required confirm supply of necessary materials and services.
		 select fit and use personal protective clothing and or equipment

Element	Performance criteria	Evidence guide
Measure and/or weigh ingredients	Pre-mixes and blends are prepared according to recipe/batch instructions Pre-mixes are labelled and stored or transferred as required by production requirements Out-of-specification product, process and equipment performance is identified, rectified and/or reported Waste generated by the process is monitored and cleared as required	 liaise with other work areas confirm equipment status and condition. This may include taring of electronic scales weigh/measure ingredients. This includes packing, sealing, labelling and storage/transfer of ingredients monitor the process and equipment operation to identify out-of-specification results or non-compliance. This can involve monitoring for: appearance, colour, and odour lumps/contaminants ingredient shortages prepare blends. This includes sieving and mixing of dry powders in hot water
Clean instrumentation and dispose of waste	Weighing, measuring and pre-mix equipment is cleaned according to company procedures Waste is collected treated and disposed or recycled according to company procedures	 to identify out-of-specification results or non- compliance. This can involve, ensuring : water level in tank is to specification water pump operating sieves in place powder pre-mixed prior to addition to tank take corrective action in response to out-of- specification results or non-compliance report and record corrective action as
Record information Workplace information is recorded in the appropriate format	 required monitor supply and flow of product to and from the process. complete relevant workplace documentation sort, collect, recycle or dispose waste prepare equipment for cleaning record workplace information maintain work area to meet housekeeping standards 	
		 Underpinning knowledge: recipe and batch specifications non bulk ingredients used key features of the weighing/ measuring and blending operations links to related processes specifications, procedures and operating parameters for weighing, measuring and blending ingredients. This includes procedures for: taring scales checking accuracy of scales requisitioning ingredients storage and segregation of dispensed materials quality parameters for ingredients equipment purpose and operation production requirements and schedules (cont)

Element	Performance criteria	Evidence guide
		Underpinning knowledge (continued)
		 sealing, labelling and storage requirements and purposes
		 services used
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures for and responsibility for reporting problems
		 environmental aspects, impacts and controls
		 cleaning, care and storage of equipment and instrumentation used
		 housekeeping requirements
		 waste handling requirements and procedures
		 recording requirements and procedures. This may include reconciling and recording materials dispensed against materials released and returned to storage

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the
 assessee can achieve the workplace outcomes described in the Performance criteria, including
 demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to weigh, measure and blend ingredients given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- ingredient preparation sheets and specifications
- non bulk ingredients and additives
- production schedule, batch/recipe instructions
- measuring/weighing and blending equipment
- services
- personal protective equipment and clothing
- cleaning schedule as required

record keeping system

Relationship to other units

Pre-requisites or equivalent:

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement the quality system
- Implement the food safety plan

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing industry

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Prepare fillings

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the preparation of sweet fillings or cream

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include weighing, sieving, mixing, pumping and testing equipment and kettles.
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational. It may also involve checking operation/calibration of measuring instrumentation
- Cream filling materials typically includes icing sugar, shortening, colours, flavours, milk powder and additives. Fondant/jam materials typically includes jam, icing sugar, glucose, water, syrups, and additives
- Fillings may include fondants, cream, and jam
- Preparation processes may include mixing/blending and cooking
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems
- Work may involve exposure to chemicals, dangerous and hazardous substances

Element	Performance criteria	Evidence guide
Prepare the process for operation	Ingredients are confirmed and available to meet production requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Ingredients are prepared to meet production requirements	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
		Demonstrated ability to:
		 access workplace information to identify production requirements
		 select, fit and use personal protective clothing and/or equipment
		 confirm supply of necessary materials and services
		 liaise with other work areas such as production and dispensing (cont)

Element	Performance criteria	Evidence guide
Prepare the process for	Services are confirmed as	Demonstrated ability to (continued)
operation	available and ready for	 confirm condition of materials
	operation	 confirm equipment status and condition
	Equipment is checked to confirm readiness for use	 weigh and load materials. This may include use of automatic loading systems. It also involves the pumping of iam into kettles
	The process is set to meet production specifications	 set up and start up the process. This may include setting up and starting up sieving, mixing, pumping and cooking equipment to meet production requirements.
Operate and monitor the	The filling preparation	 prepare fillings. This includes:
filling preparation process	process is started up according to company procedures	 prepare mings: This includes. checking temperature of ingredients weighing ingredients
	Ingredients are sieved, mixed and/or cooked to specification	 loading of ingredients in correct sequence mixing time and speed to product specification
	Control points are	 kettle times and temperature to product specification
	performance is maintained within specification	 monitor the filling preparation process and equipment operation to identify out-of-
	Fillings meet specification	specification results or non-compliance. This can involve monitoring:
	Equipment is monitored to	product temperature
	confirm operating condition	product weight
	Out-of-specification	 filling colour, density, viscosity and consistency
equipmen identified, reported	equipment performance is identified, rectified and / or reported	 monitor supply and flow of materials to and from the process
		 take corrective action in response to out-of- specification results or non-compliance
		 report and/or record corrective action as required
		 conduct product/batch changeovers
		 transfer fillings to production area
		 sort, collect, treat, recycle or dispose of waste
		 shut down equipment in response to an emergency situation
		 shut down equipment in response to routine shut down requirements
		 prepare equipment for cleaning
		 maintain workplace records
		 maintain work area to meet housekeeping standards
		May include ability to:
		 clean and sanitise equipment
		 take samples and conduct tests
		 carry out routine maintenance

Element	Performance criteria	Evidence guide
Shut down the process	The process is shut down according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 Underpinning knowledge: purpose and basic principles of filling preparation link to related processes and affect of filling quality on down stream processes differences in filling types for different product types or brands
Record information	Workplace information is recorded in the appropriate format	 effect of raw materials on process outcomes main methods used to prepare fillings quality characteristics and uses of fillings process specifications, procedures and operating parameters. This includes procedures for: storing/holding and transferring fillings remixing to right consistency incorporating left over filling requisitioning and receiving ingredients equipment and instrumentation components, purpose and operation basic operating principles of process control systems where relevant services used significance and methods of monitoring of control points within the process common causes of variation and corrective action required OHS hazards and controls lock out and tag out procedures procedures and responsibility for reporting problems environmental issues and controls shut down sequences and cleaning requirements associated with changeovers and types of shutdowns waste handling requirements and procedures recording requirements and procedures recording requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.

- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to prepare and operate the filling preparation process given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and batch instructions
- specifications, control points and processing parameters
- filling preparation equipment and instrumentation
- sampling and testing schedules and procedures, as required
- services
- materials
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to operate the filling preparation process in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing industry

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Prepare fillings

FDF BIBD2 A

Manufacture biscuit dough

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the principles, equipment and procedures used to manufacture biscuit dough

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules, batch/recipe instructions and mixing cards and dough sheets
- Biscuit types may include hard sweet, cream, crackers, cookies, and plain sweet
- Biscuit ingredients may include wet or dry, bulk and pre-weighed non- bulk ingredients.
- Equipment may include mixing, sieving and hydraulic lifting equipment
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational. It may also involve checking operation/calibration of measuring instrumentation
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems
- Work may involve exposure to chemicals, dangerous and hazardous substances

Element

Performance criteria

Evidence guide

Prepare the process for operation	Materials are confirmed and available to meet production requirements	Part A of
	Services are confirmed as available and ready for operation	
	Equipment is checked to confirm readiness for use The process is set to meet production specifications	the
	The process is set to meet production requirements	Evidence
		guide
		identifies
		the skills
		and
		knowledge
		to be
		demonstra
		ted to
		confirm
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		Demonstrated ability to (continued)
Operate and monitor the dough manufacturing process	The dough manufacturing process is started up according to company procedures Ingredients are sieved (as required) ,loaded mixed to specification Control points are monitored to confirm performance is maintained within specification Dough meets specification	 Demonstrated ability to (continued) confirm equipment status and condition. This can include ensuring: equipment is cleaned and controls set to production requirements set up and start up the process prepare dough. This includes loading ingredients in required sequence, sieving of minor ingredients as specified and mixing of ingredients to specification monitor the dough preparation process and equipment operation to identify out-of-specification results or non-compliance. This can include monitoring:
	Out-of-specification product, process and equipment performance is identified, rectified and/or reported	 mixing time and speed dough temperature pH dough consistency, feel and texture moisture level stand time tip dough into trough for transfer to forming area
process	according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 monitor supply and flow of ingredients to an from the process take corrective action in response to out-of-specification results or non-compliance report and/or record corrective action as required conduct product/batch changeovers sort, collect, treat, recycle or dispose of was shut down equipment in response to an emergency situation shut down equipment in response to routine shut down requirements prepare equipment for cleaning maintain workplace records maintain work area to meet housekeeping standards May include ability to: clean and sanitise equipment take samples and conduct tests
		 Underpinning knowledge: purpose and basic principles of dough manufacturing Purpose of each stage in the process and links to related stages (cont)

Element	Performance criteria	Evidence guide
Record Information	Workplace information is	Underpinning knowledge (continued)
	recorded in the appropriate	 effect of each stage on the quality of end
	format	product, customer satisfaction and down
		stream. This may include:
		effect of dough temperature on spread, texture and surface characteristics of final
		product
		 effect of standing time on
		consistency/texture of dough and in turn
		on the forming process
		 relationship between forming process and
		type of dough required
		- effect of law materials on process outcomes
		standing time on quality characteristics and uses of pastry for different product types or
		brands
		 relationships between time and temperature and humidity in the pastry manufacturing process
		 process specifications procedures and
		operating parameters. This includes
		calculating running times
		calculating number of doughs required to finish off the mix
		adjusting dough temperature
		check weighing dough in trough
		 equipment and instrumentation components, purpose and operation
		 basic operating principles of process control systems where relevant
		 services used
		 significance and methods of monitoring of control points within the process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 shut down sequences and cleaning requirements associated with changeovers and types of shutdowns
		 waste handling requirements and procedures
		 recording requirements and procedures
		 re work rates and procedures
		May include knowledge of:
		 cleaning and sanitation procedures
		 sampling and testing plan and procedures
		 routine maintenance procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to manufacture of biscuit dough given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- specifications, control points and processing parameters
- dough mixing equipment and instrumentation
- materials/ingredients
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- relevant work areas and communication system
- relevant OHS clothing and equipment as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures

- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to support the dough manufacturing process in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing industry

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Manufacture biscuit dough

FDF BIFB2 A

Form biscuits

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the preparation and operation of the biscuit forming process

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include depositing, rolling, forming and cutting equipment and conveying systems.
 It also includes personal protection equipment such as hearing protection and eye glasses
- Materials can include various types of biscuit dough, dusting flour and process consumables
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational. It may also involve checking operation/calibration of measuring instrumentation
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the forming	Materials are confirmed and	Part A of the Evidence guide identifies the skills and knowledge to be
process for	available to meet production	demonstrated to confirm competence for this unit. Part B of the Evidence guide
operation	requirements	outlines how this guide is to be applied. Both parts should be read in conjunction
	Materials are prepared to meet production requirements	with the Range of variables.
	Services are confirmed as available and ready for operation	 Demonstrated ability to: access workplace information to identify production requirements
	Equipment is checked	 select, fit and use personal protective clothing and/or equipment
	to confirm readiness for use	 confirm supply of necessary materials and services. This includes transfer and loading of dough into hoppers
	The process is set to meet production specifications	 liaise with other work areas cont)

Element	Performance criteria	Evidence guide
Operate and monitor the forming process	The forming process is started up according to company procedures	 Demonstrated ability to (continued) confirm condition of materials. This can includes confirming: > dough type matches product
monitored to confirm performance is maintained within specification	 specification dough temperature, consistency/texture, moisture level, weight and colour 	
	Formed product meets specification	 room temperature dough standing time dough supply
	Equipment is monitored to confirm operating condition Out-of-specification	 confirm equipment status and condition. This can include ensuring equipment components are assembled in required configuration for bioavit time.
	equipment performance is identified, rectified and/or reported	 set up and start up the process. This can include: > setting control panel for process type > setting equipment speeds

Shut down the process	The forming process is shut down according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 adjusting roller and web settings (as required) adjusting depositing/extrusion settings (as required) form product to specification. This can involve conducting trial run in preparation for full production run monitor the forming process and equipment operation to identify out-of-specification results or non-compliance. This can involve monitoring: biscuit size, shape and thickness biscuit weight biscuit temperature incorporation of re-work dough monitor supply and flow of materials to and from the process take corrective action in response to out-of-specification results or non-compliance report and/or record corrective action as required conduct product/batch changeovers sort, collect, treat, recycle or dispose of waste shut down equipment in response to routine shut down requirements prepare equipment for cleaning maintain workplace records maintain work area to meet housekeeping standards May include the ability to: clean and sanitise equipment take samples and conduct tests carry out routine maintenance

Element	Performance criteria	Evidence guide
Record information	Workplace information is	Underpinning knowledge:
	format	 purpose and basic principles of biscuit forming
		 purpose of each stage in the process and links to related processes
		 effect of each stage on the quality of end product, customer satisfaction and down stream processes such as baking and packaging
		 effect of dough quality on process outcomes
		 quality characteristics of formed products
		 process specifications, procedures and operating parameters. This includes procedures for incorporating re-work dough and procedures for mending webs as required
		 equipment and instrumentation components, purpose and operation
		 basic operating principles of process control systems where relevant
		 services used
		 significance and method of monitoring of control points within the process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 shut down sequences and cleaning requirements associated with changeovers and types of shut downs
		 waste handling requirements and procedures
		 recording requirements and procedures
		May include knowledge of:
		 cleaning and sanitation procedures
		 sampling and testing plan and procedures
		 routine maintenance procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the
 assessee can achieve the workplace outcomes described in the Performance criteria, including
 demonstration of the underpinning knowledge and skills contained in the Evidence guide.

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- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to operate a forming process given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- specifications, control points and processing parameters
- forming equipment and instrumentation
- materials
- services
- sampling and testing schedules and procedures, as required
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to operate the forming process in the workplace, units should be coassessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing industry

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Form biscuits

FDF BIBB2 A

Bake biscuits

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the preparation and operation of the baking process

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include ovens (direct, indirect gas fired (radiant heat) or convection), panning web, take off and cooling conveyors, band brushes, vibratory stripping knives and testing equipment
- Materials include formed dough to be baked and process consumables such as panning oil
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the process for operation	pare the process for A daterials are confirmed as available to meet and knowledge to competence for the evice of the evice	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Services are confirmed as available and ready for operation	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Equipment is checked to confirm readiness for use	 Demonstrated ability to: access workplace information to identify production requirements
	The process is set to meet production requirements	 select, fit and use personal protective clothing and equipment
		 confirm supply of materials and services. This includes checking type and quality of formed dough to be baked
		 liaise with other work areas. Synchronise web speed with forming and packaging processes as required
		 confirm equipment status and condition ensuring equipment set for particular run/product
		(CONT)

Element	Performance criteria	Evidence quide
Operate and monitor the	Process is started up	Demonstrated ability to (continued)
process	according to company procedures	 set up and start up the oven. This may include:
	Product is baked to specification	 completing safety checks complying with light up and pre-start up
	Control points are monitored to confirm performance is maintained within specification Baked product meets specification	 > setting oven speed and baking times > setting each oven zone's temperature, air pressure, burner patterns, dampers, and extraction fans > setting steam (if required)
	Equipment is monitored to	 ensuring oven and conveyors are clean or product or contaminates
	Out-of-specification product, process and equipment performance is identified, rectified and/or reported	 operate the process to meet specifications monitor the process and equipment operation to identify out-of-specification results or non- compliance. This can involve monitoring: biscuit size and shape. Check against packet length and packet dimension specifications
Shut down the process and clean equipment	The process is shut-down according to company procedures	 biscuit texture, colour and weight biscuit moisture level biscuit count
	Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 product is cleanly removed from baking band monitor supply and flow of materials to and from the process take corrective action in response to out-of- specification results or non-compliance conduct batch/product changeovers
Record information	Workplace information is recorded in the appropriate format	 report and/or record corrective action as required sort, collect, treat, recycle or dispose of waste. shut down equipment in response to an
		 emergency situation shut down equipment in response to routine shut down requirements
		 prepare equipment for cleaning
		 maintain workplace records maintain work area to meet housekeeping standards
		May include the ability to: - clean and sanitise equipment - take samples and conduct tests - conduct routine maintenance

Element	Performance criteria	Evidence guide
		Underpinning knowledge:
		 purpose and basic principles of each stage of the baking process
		 purpose of each stage and links to related processes
		 effect of each stage on the quality of end product, customer satisfaction and down stream processes such as packaging
		 changes which occur in product during baking
		 quality characteristics of final baked product for each baking zone
		 process specifications, procedures and operating parameters for different baked pastry products. This includes an understanding of:
		 specific function of settings in each oven zone in relation to characteristics of finished product
		procedures for cleaning and conditioning oven band
		procedures for conducting trial bake of product, rejecting out-of-specification formed dough and communicating with mixing and forming sections
		 equipment and instrumentation components, purpose and operation
		 basic understanding of process control systems where relevant
		 services used
		 significance and method of monitoring control points within the process including testing procedures required during the baking process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 rework requirements and procedures
		 waste nandling requirements and procedures recording requirements and procedures
		May include:
		 cleaning and sanitation procedures
		 sampling and testing procedures
		 routine maintenance requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to bake biscuits given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- baking equipment
- specifications, control points and processing parameters
- product to be baked
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to bake biscuits in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing sector

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Bake biscuits

FDF BICB2 A

Combine biscuits and cream

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the preparation and operation of the biscuit creaming process

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include cream/jam pumps, stirrers and holding tanks, creaming machines (including cream extruders/depositors, stencils) depressors, chain feed, take off webs, stackers, cooling tunnel
- Materials include sweet fillings such as cream, jam, chocolate and baked biscuits (tops and bottoms)
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the process for operation	Materials are confirmed as available to meet production requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Services are confirmed as available and ready for operation	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Equipment is checked to confirm readiness for use	 Demonstrated ability to: access workplace information to identify production requirements
	The process is set to meet production requirements	 select, fit and use personal protective clothing and equipment
		 confirm supply of materials and services. This includes confirming type, quality and supply of biscuits and cream/filling
		 liaise with other work areas. Synchronise operations with other processes as required
		 confirm equipment status and condition ensuring equipment set for particular product (cont)

Element	Performance criteria	Evidence guide
Operate and monitor the process	Process is started up according to company procedures	 Demonstrated ability to (continued) set up and start up the process. This may include setting:
	Biscuits bases are filled, topped, depressed and stacked to specification	 chain feed speed pin and shoe heights depositor timing
	Control points are monitored to confirm performance is maintained within specification Biscuit meets specification Equipment is monitored to confirm operating condition Out-of-specification product, process and equipment performance is identified, rectified and/or reported	 cream pump speed depressor pressure stacker speed cooling tunnel web speed It also involves loading and connecting cream hopper and jam kettle to depositing machine operate the process to meet specifications. This also involves synchronising processes monitor the process and equipment operation to identify out-of-specification results or non- compliance. This can involve monitoring: cream consistency cream placement
Shut down the process and clean equipment	The process is shut-down according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 ratio of cream to biscuit product weight biscuit dimensions packet length monitor supply and flow of materials to and from the process take corrective action in response to out-of-specification results or non-compliance conduct batch/product changeovers
Record information	Workplace information is recorded in the appropriate format	 report and/or record corrective action as required sort, collect, treat, recycle or dispose of waste. shut down equipment in response to an emergency situation shut down requipment in response to routine shut down requirements prepare equipment for cleaning maintain workplace records maintain work area to meet housekeeping standards May include the ability to: clean and sanitise equipment take samples and conduct tests conduct routine maintenance Underpinning knowledge: purpose of each stage and links to related processes effect of each stage on the quality of end product, customer satisfaction and down stream processes such as packaging <i>(cont)</i>

Element	Performance criteria	Evidence guide
		Underpinning knowledge (continued)
		 quality characteristics of final product
		 process specifications, procedures and
		operating parameters for:
		loading materials
		depositing cream
		topping and depressing biscuit
		Cooling
		purpose and operation
		 basic understanding of process control systems where relevant
		 services used
		 significance and method of monitoring control points within the process
		 common causes of variation and corrective action required such as:
		chipping
		➤ wedging
		cream moving/shifting
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 waste handling requirements and procedures
		 recording requirements and procedures
		May include:
		 cleaning and sanitation procedures
		 sampling and testing procedures
		 routine maintenance requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.

- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to cream biscuits given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- creaming and stacking equipment
- specifications, control points and processing parameters
- materials
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to cream and stack biscuits in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing sector

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

Manufacture extruded and toasted products

FDF BIET2 A

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the preparation and operation of an extrusion, toasting and breaking process used in the manufacture of cruskit products

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include mixers, sieves, extrusion, toasting and breaking equipment
- Materials include pre-mixed dry ingredients and water
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the process for operation	Materials are confirmed as available to meet production requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Services are confirmed as available and ready for operation	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Equipment is checked to confirm readiness for use	 Demonstrated ability to: access workplace information to identify production requirements
	The process is set to meet production requirements	 select, fit and use personal protective clothing and equipment
		 confirm supply of materials and services. This includes ensuring a continuous supply of dry ingredients to the extruder.
		 liaise with other work areas. Synchronise processes as required
		 confirm equipment status and condition. This includes ensuring equipment is assembled to specification (cont)

Element	Performance criteria	Evidence guide
Operate and monitor the process	Process is started up according to company procedures	 Demonstrated ability to (continued) set up and start up the equipment. This may include pre start checks for toaster, breaker
	Materials are mixed, cooked, extruded, toasted and cut to specification Control points are monitored to confirm performance is maintained within specification Product meets specification Equipment is monitored to confirm operating condition	 and extruder. In addition for extruder ensure: water pump working bin discharge speed set temperature and heaters set motor speed set screw feed is on operate the process to meet specifications ensuring that system has reached specified temperature monitor the process and equipment operation to identify out-of-specification results or non-compliance. This can involve monitoring:
	product, process and equipment performance is identified, rectified and/or reported	 biscuit size (width, length and thickness) biscuit texture, colour and weight biscuit moisture level clean, even break/cut
Shut down the process and clean equipment	The process is shut-down according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 monitor supply and flow of materials to and from the process take corrective action in response to out-of- specification results or non-compliance conduct batch/product changeovers report and/or record corrective action as required sort, collect, treat, recycle or dispose of waste.

Record information	Workplace information is recorded in the appropriate	 shut down equipment in response to an emergency situation
	format	 shut down equipment in response to routine shut down requirements
		 prepare equipment for cleaning
		 maintain workplace records maintain work area to meet housekeeping standards
		May include the ability to:
		 clean and sanitise equipment
		 take samples and conduct tests
		 conduct routine maintenance
		Underpinning knowledge:
		 purpose and basic principles of each stage of the cruskit manufacturing process
		 purpose of each stage and links to related processes
		 effect of each stage on the quality of end product, customer satisfaction and down stream processes such as packaging
		 changes which occur in product during processing
		 quality characteristics of final product
		 process specifications, procedures and operating parameters (cont)

Element	Performance criteria	Evidence guide
		Underpinning knowledge (continued)
		 equipment and instrumentation components, purpose and operation
		 basic understanding of process control systems where relevant
		 services used
		 significance and method of monitoring control points within the process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 rework requirements and procedures
		 waste handling requirements and procedures
		 recording requirements and procedures
		May include:
		 cleaning and sanitation procedures
		 sampling and testing procedures
		 routine maintenance requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the
 assessee can achieve the workplace outcomes described in the Performance criteria, including
 demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to manufacture cruskits given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- extrusion, toasting and breaking equipment
- specifications, control points and processing parameters
- materials
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to manufacture cruskits in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing sector

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

FDF BIWP2 A

Manufacture wafer products

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the principles, procedures and equipment used to manufacture wafer products.

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include depositing, and baking equipment and wafer plates
- Materials include pre-mixed batter and production consumables
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled.
 This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the wafer process for operation	Materials are confirmed as available to meet production requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Services are confirmed as available and ready for operation	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Equipment is checked to confirm readiness for use	 Demonstrated ability to: access workplace information to identify production requirements
	The process is set to meet production requirements	 select, fit and use personal protective clothing and equipment
		 confirm supply of materials and services. This includes confirming quality , quantity and temperature of batter
		 liaise with other work areas. Synchronise processes as required
		 confirm equipment status and condition. This includes ensuring equipment is assembled to specification (cont)

Element	Performance criteria	Evidence guide
Operate and monitor the wafer process	Process is started up according to company procedures Materials are deposited, toasted and cut to specification Control points are monitored to confirm performance is maintained within specification Wafer products meet specification Equipment is monitored to confirm operating condition Out-of-specification product, process and equipment performance is identified, rectified and/or reported	 Demonstrated ability to (continued) set up and start up the equipment. This may include pre start checks for oven and depositing equipment and ensuring: batter loaded wafer plates selected for product type oven settings adjusted for product type web/chain speed set rate of batter deposition set operate the process to meet specifications ensuring that system has reached specified temperature monitor the process and equipment operation to identify out-of-specification results or non-compliance. This can involve monitoring: wafer size (width, length and thickness) wafer moisture level monitor supply and flow of materials to and from the process
Shut down the process and clean equipment	The process is shut-down according to company procedures Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 lake corrective action in response to out-of-specification results or non-compliance conduct batch/product changeovers report and/or record corrective action as required sort, collect, treat, recycle or dispose of waste. shut down equipment in response to an emergency situation shut down equipment in response to routine
Record information	Workplace information is recorded in the appropriate format	 shut down requirements prepare equipment for cleaning maintain workplace records maintain work area to meet housekeeping standards May include the ability to: clean and sanitise equipment take samples and conduct tests conduct routine maintenance Underpinning knowledge: purpose and basic principles of each stage of the wafer manufacturing process purpose of each stage and links to related processes effect of each stage on the quality of end product, customer satisfaction and down stream processes such as packaging changes which occur in product during processing (cont)

Element	Performance criteria	Evidence guide
		Underpinning knowledge (continued)
		 quality characteristics of final product
		 process specifications, procedures and
		operating parameters
		 equipment and instrumentation components, purpose and operation
		 basic understanding of process control systems where relevant
		 services used
		 significance and method of monitoring control points within the process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 rework requirements and procedures
		 waste handling requirements and procedures
		 recording requirements and procedures
		May include:
		 cleaning and sanitation procedures
		 sampling and testing procedures
		 routine maintenance requirements and
		procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to manufacture wafers given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- depositing, toasting and cutting equipment
- specifications, control points and processing parameters
- materials
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan
- Bake biscuits

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to manufacture wafers in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing sector

Related learning resources:

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation

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FDF BIRC2 A

Manufacture rye crisp breads

Descriptor

This is a specialist unit that has been developed for the biscuit sector. It covers the principles, procedures and equipment used to manufacture rye crisp breads

Range of variables

- Work is carried out in accordance with company procedures, legislative requirements and industrial arrangements
- Workplace information can include Standard Operating Procedures (SOPs), specifications, production schedules and batch/recipe instructions
- Equipment may include depositing, baking and cutting (revolving saws) and stacking equipment
- Materials include chilled and aerated slurry and production consumables.
- Confirming equipment status involves checking that hygiene and sanitation standards are met, all safety guards are in place and equipment is operational
- Services may include power, steam, water, vacuum, compressed and instrumentation air
- Monitoring the process may involve the use of production data such as performance control charts
- Process operation and monitoring functions may be manual or involve the use of a process control system
- Control points refer to those key points in a work process that must be monitored and controlled. This includes food safety (critical), quality and regulatory control points as well as inspections points
- Information systems may be print or screen based
- Weighing and measuring equipment may include both manual and automated systems

Element	Performance criteria	Evidence guide
Prepare the process for operation	Materials are confirmed as available to meet production requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence
	Services are confirmed as available and ready for operation	guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Equipment is checked to confirm readiness for use	 Demonstrated ability to: access workplace information to identify production requirements
	The process is set to meet production requirements	 select, fit and use personal protective clothing and equipment
		 confirm supply of materials and services. This includes confirming slurry quality, quantity, temperature and degree of aeration
		 liaise with other work areas. Synchronise processes as required
		 confirm equipment status and condition. This includes ensuring equipment is assembled to specification

Element	Performance criteria	Evidence guide
Operate and monitor the processProcess is started up according to company proceduresMaterials are deposited, toasted and cut to specificationControl points are monitored to confirm performance is maintained within specificationProduct meets specificationsEquipment is monitored to confirm operating condition	Process is started up according to company procedures	 Demonstrated ability to (continued) set up and start up the equipment. This may include pre start checks for depositors, ovens,
	Materials are deposited, toasted and cut to specification	 and cutters. > slurry loaded > oven, cutter and stacker settings adjusted for product type
	 web speed set rate of batter deposition set flour (dusting) process set 	
	Product meets specifications	 docking roller adjusted for product type operate the process to meet specifications operating that system has reached specified
	Equipment is monitored to confirm operating condition	 monitor the process and equipment operation
	Out-of-specification product, process and equipment performance is identified, rectified and/or reported	 to identify out-of-specification results or non-compliance. This can involve monitoring: slurry volume, weight and density biscuit size (width, length and thickness) biscuit texture, colour and weight
Shut down the process and clean equipment	The process is shut-down according to company procedures	 biscuit moisture level clean, even break/cut monitor supply and flow of materials to and
Waste ge process is treated ar recycled a company	Waste generated by the process is collected, treated and disposed or recycled according to company procedures	 from the process take corrective action in response to out-of-specification results or non-compliance conduct batch/product changeovers report and/or record corrective action as required

Record information V	Workplace information is recorded in the	 sort, collect, treat, recycle or dispose of waste.
	appropriate format	 shut down equipment in response to an emergency situation
		 shut down equipment in response to routine shut down requirements
		 prepare equipment for cleaning
		 maintain workplace records maintain work area to meet housekeeping standards
		May include the ability to:
		 clean and sanitise equipment
	- - - - -	 take samples and conduct tests
		 conduct routine maintenance
		Underpinning knowledge:
		 purpose and basic principles of each stage of the biscuit manufacturing process
		 purpose of each stage and links to related processes
		 effect of each stage on the quality of end product, customer satisfaction and down stream processes such as packaging
		 effect of slurry temperature on it's ability to hold air
		 effect of docking roller on baking process (cont)

Element	Performance criteria	Evidence guide
		Underpinning knowledge (continued)
		 changes which occur in product during
		processing
		 quality characteristics of final product
		 process specifications, procedures and operating parameters
		 equipment and instrumentation components, purpose and operation
		 basic understanding of process control systems where relevant
		 services used
		 significance and method of monitoring control points within the process
		 common causes of variation and corrective action required
		 OHS hazards and controls
		 lock out and tag out procedures
		 procedures and responsibility for reporting problems
		 environmental issues and controls
		 rework requirements and procedures
		 waste handling requirements and procedures
		 recording requirements and procedures
		May include:
		 cleaning and sanitation procedures
		 sampling and testing procedures
		 routine maintenance requirements and procedures

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over a specified time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the assessee can achieve the workplace outcomes described in the Performance criteria, including demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.

Assessment context

Assessment must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to manufacture biscuits given:

- work procedures including advice on safe work practices, food safety and environmental requirements
- production schedule and recipe/batch instructions
- depositing, baking, cutting and stacking equipment
- specifications, control points and processing parameters
- materials
- sampling and testing schedules and procedures, as required
- services
- material safety data sheets as required
- routine preventative maintenance schedule as required
- cleaning schedule as required
- documentation and record keeping system

Relationship to other units

Pre-requisites or equivalent

- Communicate in the workplace
- Apply basic mathematical concepts
- Apply safe work procedures
- Apply basic quality assurance practices
- Apply basic food safety practices

Co-requisites:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement quality system
- Implement food safety plan
- Bake biscuits

Related units:

- Conduct routine tests
- Clean and sanitise equipment
- Conduct routine preventative maintenance

Where related units are required to manufacture wafers in the workplace, units should be co-assessed.

Relationship to learning resources

Main learning resources:

There are no specific learning resources currently available for this sector of the food processing sector

- Industrial Communication B
- Occupational Health and Safety B
- Quality Assurance B
- Food Safety B (Hygiene and Sanitation B and C)
- Cleaning and Sanitation`

FDF BIOS3 A	Operate a system (Biscuits)
Descriptor	This is a specialist unit that has been customised for the biscuit sector. It covers the preparation and operation of a production or packaging system.
	A system typically describes the operation of an entire process which may be comprised of a number of sub-systems. System operation requires higher level planning and problem solving skills than are necessary when operating an individual sub-system or piece of equipment. It can also involve facilitating the work of others.

Range of variables

- Work is carried out in accordance with company procedures, licensing requirements, legislative requirements and industrial awards and agreements
- System operation typically involves planning, co-ordination and troubleshooting within their level of authority
- Control points refer to those key points in a work process which must be monitored and controlled. This includes food safety (critical), quality and regulatory control points as well as inspection points
- Information systems may be print or screen based
- Co-ordination, planning and troubleshooting is undertaken with assistance from others
- Workplace systems are in place to support production and packaging processes. These include quality, food safety, occupational health and safety and environmental management

Element	Performance criteria	Evidence guide – Part A
Prepare the system for operation	Supply of materials is confirmed to meet production/packaging requirements	Part A of the Evidence guide identifies the skills and knowledge to be demonstrated to confirm competence for this unit. Part B of the Evidence guide outlines how this guide is to be applied. Both parts should be read in conjunction with the Range of variables.
	Work area is prepared for operation	
	operation Services are confirmed as available and ready for operation Equipment is checked to confirm readiness for use The system is set to meet specifications	 Demonstrated ability to: liaise with relevant work areas to confirm or secure necessary materials, services, equipment and labour to meet production requirements confirm that all equipment within the system meets hygiene and sanitation standards, all safety guards are in place and equipment is ready for operation confirm that materials and/pr packaging consumables have been cleared for use monitor implementation of set-up and start up procedures. This may involve monitoring the use of checksheets by others
		 monitor observance of work procedures and systems
		 monitor materials flow and work-in-progress through the system(cont.)

Element	Performance criteria	Evidence guide – Part A
Operate and monitor	The system is started up	Demonstrated ability to: (continued)
the system	according to company procedures	 confirm that the system operates within specified parameters and control points are monitored
	Control points are monitored to confirm performance is maintained within specification	 determine responses to out-of-specification results or non-conformance within level of responsibility
	System outputs meet specification	 co-ordinate batch/product changeovers communicate information effectively
	Equipment is monitored to confirm operating	 plan maintenance and cleaning procedures to minimise disruption
	condition Out-of-specification product, process and equipment performance is	 monitor operating efficiencies of the system and investigate, resolve and/or report problems
		 review and maintain procedures to support system improvements
	identified, rectified and/or	Underpinning knowledge:
	reporteu	 purpose and principles of the system
Shut down the system	The system is shut down	 equipment purpose and operation including an understanding of process control systems where used
	procedures	 technical knowledge of product/packaging
	Equipment is cleaned and maintained to meet	characteristics and processing/packaging requirements
	cleaning schedule and procedural requirements	 codes and legislation relating to product and packaging requirements
	Waste generated by both the process and cleaning procedures is collected, tracted and disposed or	 equipment calibration schedule and responsibilities
		 type and purpose of sampling and testing conducted
	recycled according to	 related work areas and departments
	company procedures	 relevant procedures, specifications and operating parameters
Contribute to	Quality of process outputs	 relevant systems and legislative
continuous improvement of the system	is assessed against specifications	responsibilities in areas such as human resources, food safety, quality, occupational health and safety and environmental
	Opportunities for improvement are identified	management – industrial awards and agreements relating to
	and investigated	system operation
	Proposals for improvements are	monitoring processes within the system
	developed and	 maintenance and cleaning requirements of aquinment is sustant.
	company planning	 process improvement procedures and related
	arrangements and	consultative arrangements
	procedures	 troubleshooting procedures and problem solving techniques
		 recording and reporting requirements

Element	Performance criteria	Evidence guide – Part A
Record information	Workplace information is recorded in the appropriate format	

Evidence guide – Part B

Assessment guide

- Assessment must take account of the food industry's endorsed assessment guidelines and may use the non-endorsed Assessment Framework for the Food and Beverage Processing Industry NFITC June 1995.
- The competencies described in this unit need to be performed over time and events, under normal workplace conditions, having due regard for the key assessment principles of validity, reliability, fairness and flexibility.
- Assessment should be structured on whole of work activities giving emphasis to confirming that the
 assessee can achieve the workplace outcomes described in the Performance criteria, including
 demonstration of the underpinning knowledge and skills contained in the Evidence guide.
- The equipment used should be the actual items described in the Range of variables and Assessment context.
- The procedures and documentation should be those typically used in a workplace. Compliance with statutory occupational health and safety, food safety, hygiene and environmental requirements relevant to the food processing industry should be emphasised.
- Assessment should reinforce the integration of the key competencies and the food industry's core competencies for the particular AQF level.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.
- Assessment should not require a higher level of communication competency than that specified in the core competencies for the particular AQF level.

Assessment context

Assessment of this unit must occur in a real or simulated workplace. Such an environment must provide an opportunity for the assessee to prepare and operate a production system given:

- work procedures including advice on safe work practices, food safety and environmental requirements for processes within the system
- company policies and workplace systems including human resources, OHS, quality, food safety and environmental management
- production/packaging schedule
- specifications, control points and processing parameters
- production/packaging system equipment
- personnel operating the system
- services
- related work areas and communication system
- relevant OHS clothing and equipment
- cleaning, calibration and maintenance schedules as required
- sampling and testing schedules as required
- troubleshooting advice where available
- documentation and record keeping system
- planning, resources management and training arrangements

Relationship to other units

Pre-requisites or equivalent:

- Collect, present and apply workplace information
- Implement occupational health and safety principles and procedures
- Implement the quality system
- Implement the food safety plan

Co-requisites:

- Analyse and convey workplace information
- Monitor the implementation of occupational health and safety
- Monitor the implementation of the quality system
- Monitor the implement the food safety plan

Related units:

- Facilitate Teams

Where related units form an integral part of system operation in the workplace, these units should be co-assessed.

Relationship to learning resources

Main learning resource:

- General Foods System Preparation and Operation

- Industrial Communication C
- Quality Assurance C
- Occupational Health and Safety C
- Food Safety C (Hygiene and Sanitation D)
- Work Team Communication