

Australian Government

Department of Education, Employment and Workplace Relations

FDFPO2006A Operate a washing and chilling process

Revision Number: 1



FDFPO2006A Operate a washing and chilling process

Modification History

Not applicable.

Unit Descriptor

This unit of competency covers the skills and knowledge required to set up, operate, adjust and shut down spin and/or air chilling equipment used to wash and chill carcasses.
carcasses.

Application of the Unit

Application of the unit	This unit has application in a poultry production environment. It typically targets the production worker responsible for applying basic operating principles to the operation and monitoring of washing and chilling equipment and processes.
	When batch or product changeover procedures are part of this work process, the procedures should be used to customise the application of this unit. Where more detailed changeovers are carried out, FDFOP2011A Conduct routine maintenance should be considered.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

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

EI	LEMENT	PERFORMANCE CRITERIA
1.	Prepare the chilling equipment and	1.1.Carcasses are confirmed and available to meet operating requirements
	process for operation	1.2. Cleaning and maintenance requirements and status are identified and confirmed
		1.3. Processing/operating parameters are entered as required to meet safety and production requirements
		1.4. Equipment performance is checked and adjusted as required
		1.5. Pre-start checks are carried out as required by workplace requirements
2.	Operate and monitor the chilling process	2.1. The process is started and operated according to workplace procedures
		2.2. Equipment is monitored to identify variation in operating conditions
		2.3. Variation in equipment operation is identified and maintenance requirements are reported according to workplace reporting requirements
		2.4. The process is monitored to confirm that specifications are met
		2.5. Out-of-specification product/process outcomes are identified, rectified and/or reported to maintain the process within specification
		2.6. The work area is maintained according to housekeeping standards
		2.7. Work is conducted according to workplace environmental guidelines
		2.8. Workplace records are maintained according to workplace recording requirements
3.	Shut down the	3.1. The appropriate shutdown procedure is identified
	chilling process	3.2. The process is shut down according to workplace procedures
		3.3. Maintenance requirements are identified and reported according to workplace reporting requirements

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Ability to:

- access workplace information to identify chilling process requirements
- select, fit and use personal protective clothing and/or equipment
- confirm supply of necessary materials and services
- conduct pre-start checks, such as inspecting equipment condition to identify any signs of wear, selecting appropriate settings and/or related parameters, cancelling isolation or lock outs as required, confirming that equipment is clean and correctly configured for chilling process requirements, positioning sensors and controls correctly, ensuring any scheduled maintenance has been carried out, and confirming that all safety guards are in place and operational
- confirm:
 - water tank levels
 - operation of ice conveyor
 - operation of pumps and chlorine dosing equipment
- start, operate, monitor and adjust chilling process equipment to achieve required outcomes, including monitoring control points and conducting inspections as required to confirm process remains within specification, such as:
 - water overflow rates
 - chlorine level
 - chiller/water temperature
 - air temperature (air chillers)
 - washer agitation
 - carcass immersion time
 - deep muscle temperature
 - and ensuring carcasses are shackled securely as they come out of the spin chiller
- monitor supply and flow of product and services to and from the chilling process
- take corrective action in response to out-of-specification results
- respond to and/or report equipment failure within level of responsibility
- locate emergency stop functions on equipment
- follow isolation and lock out/tag out procedures as required to take chilling process and related equipment off-line in preparation for cleaning and/or maintenance within level of responsibility
- · demonstrate changeover procedures to adjust for bird size
- complete workplace records as required

REQUIRED SKILLS AND KNOWLEDGE

- maintain work area to meet housekeeping standards
- use process control systems according to enterprise procedures
- collect samples and conduct tests according to enterprise procedures
- conduct routine maintenance according to enterprise procedures

clean and sanitise equipment according to enterprise procedures

- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning, active listening, asking for clarification and seeking advice from supervisor
- work cooperatively within a culturally diverse workforce

Required knowledge

Knowledge of:

- purpose and basic principles of the chilling process, including the purpose of both washing and chilling as it affects bacterial load
- basic operating principles of equipment, such as main equipment components, status and purpose of guards, equipment operating capacities and applications, and the purpose and location of sensors and related feedback instrumentation
- services required and action to take if services are not available
- the effect of each stage on the quality of end product, including the relationship between immersion time, water temperature, and agitation on the amount of water absorbed by the carcass and on washing efficiency
- the flow of the chilling process and the effect of outputs on downstream processes
- quality characteristics to be achieved by the chilling process
- quality requirements of carcasses and materials and effect of variation on chilling process performance
- operating requirements and parameters and corrective action required where operation is outside specified operating parameters, such as specifications for temperature range of washers and chillers
- typical equipment faults and related causes, including signs and symptoms of faulty equipment and early warning signs of potential problems
- methods used to monitor the chilling process, such as inspecting, measuring and testing as required by the process
- inspection or test points (control points) in the chilling process and the related procedures and recording requirements, including procedures for measuring deep muscle temperature
- changeover procedures
- contamination/food safety risks associated with the chilling process and related control measures
- common causes of variation and corrective action required
- occupational health and safety (OHS) hazards and controls, including the limitations of protective clothing and equipment relevant to the work process
- requirements of different shutdowns as appropriate to the chilling process and

REQUIRED SKILLS AND KNOWLEDGE

workplace production requirements, including emergency and routine shutdowns and procedures to follow in the event of a power outage

- isolation, lock out and tag out procedures and responsibilities
- procedures and responsibility for reporting production and performance information
- environmental issues and controls relevant to the chilling process, including waste/rework collection and handling procedures related to the process
- basic operating principles of process control, where relevant, including the relationship between control panels and systems and the physical equipment
- sampling and testing associated with chilling process monitoring and control where relevant
- routine maintenance procedures where relevant
- cleaning and sanitation procedures where relevant

Evidence Guide

EVIDENCE GUIDE

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

Overview of assessment Critical aspects for assessment and	Assessment must be carried out in a manner that recognises the cultural and literacy requirements of the assessee and is appropriate to the work performed. Competence in this unit must be achieved in accordance with food safety standards and regulations. Evidence of ability to:
evidence required to demonstrate competency in this unit	 conduct pre-start checks on machinery used for washing and chilling start, operate, monitor and adjust process equipment to achieve required quality outcomes take corrective action in response to typical faults and inconsistencies complete workplace records as required apply safe work practices and identify OHS hazards and controls safely shut down equipment apply food safety procedures to work practices.
Context of and specific resources for assessment	 Assessment must occur in a real or simulated workplace where the assessee has access to: personal protective clothing and equipment work procedures, including advice on safe work practices, food safety, quality and environmental requirements information on equipment capacity and operating parameters production schedule/batch instructions specifications, control points and processing parameters washing and chilling and conveying process, related equipment and services carcasses to be washed and chilled sampling schedules and test procedures and equipment as required documentation and recording requirements and procedures cleaning procedures, materials and equipment as

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EVIDENCE GUIDE	
	required.
Method of assessment	This unit should be assessed together with core units and other units of competency relevant to the function or work role. Examples could be:
	 FDFOP2004A Clean and sanitise equipment FDFOP2011A Conduct routine maintenance FDFOP2013A Apply sampling procedures FDFOP2030A Operate a process control interface MSL973001A Perform basic tests.
Guidance information for assessment	To ensure consistency in one's performance, competency should be demonstrated on more than one occasion over a period of time in order to cover a variety of circumstances, cases and responsibilities, and where possible, over a number of assessment activities.

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Range Statement

RANGE STATEMENT

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

Policies and procedures	Work is carried out according to company policies and procedures, regulatory and licensing requirements, legislative requirements, and industrial awards and agreements
Legislative requirements	Legislative requirements are typically reflected in procedures and specifications. Legislation relevant to this industry includes:
	 the Food Standards Code, including labelling, weights and measures legislation legislation covering food safety, environmental management, OHS, anti-discrimination and equal opportunity
Workplace information	 Workplace information may include: standard operating procedures (SOPs) specifications production schedules and instructions manufacturers' advice standard forms and reports
Production equipment	 Production equipment may include: washers spin or air chillers pumps and dosing equipment conveyor systems
Operation of equipment and processes	Operation of equipment and processes may require:the use of process control panels and systems
Shutdown procedures	 Shutdown procedures may include: cleaning (in some cases cleaning may be carried out by a dedicated cleaning crew)

RANGE STATEMENT	
Services	 Services may need to be confirmed. These depend on the nature of the process. Typical examples include: power water refrigerant instrumentation air

Unit Sector(s)

Unit sector	Poultry
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Competency field

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Co-requisite units

Co-requisite units	