Modification history

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 1.0.

FBPDPR2004	Operate a cooling and hardening process
Application	This unit of competency describes the knowledge and skills required to set up, operate, adjust and shut down a process to cool and harden dairy products to specification.
	This unit applies to individuals who apply basic operating principles to the operation and monitoring of equipment and processes used to cool and harden dairy products in a dairy products production environment.
	All work must be carried out to comply with workplace procedures, in accordance with State/Territory food safety, and work health and safety codes, regulations and legislation that apply to the workplace.
	No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Dairy processing (DPR)

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare the cooling and hardening process for	1.1 Confirm materials and personal protective equipment are available for operating requirements
operation	1.2 Identify and confirm cleaning and maintenance requirements according to food safety requirements
	1.3 Fit personal protective equipment and adjust machine components and attachments needed for operating requirements
	1.4 Enter parameters required to meet safety and operating requirements1.5 Check and adjust equipment performance as required
	1.6 Conduct pre-start checks according to workplace requirements
2. Operate and monitor the cooling and hardening	2.1 Start up the cooling and hardening process according to workplace procedures
process	2.2 Monitor equipment to identify variation in operating conditions
	2.3 Identify variation in equipment operation and report maintenance requirements
	2.4 Confirm that specifications are met at each stage
	2.5 Identify, rectify or report out-of-specification product or process outcomes
	2.6 Maintain the work area according to workplace guidelines, work health and safety and food safety requirements
	2.7 Enter information in workplace records in required format
3. Shut down the cooling	3.1 Identify the appropriate shutdown procedure
and hardening process	3.2 Shut down the process safely according to workplace procedures 3.3 Identify and report maintenance requirements according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description	
Reading	 Read and interpret standard operating procedures for the cooling and hardening process 	
Writing	 Complete records according to workplace guidelines using paper-based and/or electronic media 	
Numeracy	 Confirm process remains within specification for time, temperature, flow rates and pressure Interpret recording devices and gauges 	
Navigate the world of work	 Apply workplace procedures to own role and responsibilities Understand main tasks, responsibilities and boundaries of own role, including use of personal protective clothing and equipment, housekeeping standards and environmental care requirements Maintain a clean and hazard-free work area Maintain hygiene standards 	
Interact with others	 Report operational and safety information to relevant personnel using required communication method 	
Get the work done	 Solve routine problems according to workplace guidelines and using experience of past solutions 	

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FBPDPR2004 Operate a cooling and hardening process	FDFDP2004A Operate a cooling and hardening process	Updated to meet Standards for Training Packages	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet:
	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323- cd38-483e-aad7-1159b570a5c4

TITLE	Assessment requirements for FBPDPR2004 Operate a cooling and hardening process
Performance Evidence	
 There must be evidence that, o and shut down a cooling and ha conducted pre-start checks started, operated, monitore required quality outcomes taken corrective action in re completed workplace record 	on machinery used for cooling and hardening dairy products d and adjusted the cooling and hardening process equipment to achieve esponse to typical faults and inconsistencies ds in required format and identified work health and safety hazards and controls at
Knowledge Evidence	
An individual must be able to de elements and performance crite purpose and basic principles of the principles of heat tr the difference between basic operating principles of status and purpose of of equipment operating ca the purpose and location the flow of the cooling and processes stages and changes which quality characteristics to be effect of in-feed characteris operating requirements and specified operating parame typical equipment faults and signs and symptoms of early warning signs of p techniques used to monitor testing as required by the p inspection or test points (co requirements common causes of variatio contamination and food saf work health and safety haz requirements, including: emergency and routine procedures to follow in isolation, lock out and tag of procedures and responsibil environmental issues and of collection and handling pro	latent heat energy transfer and sensible heat energy transfer of equipment, including: onents guards apacities and applications on of sensors and related feedback instrumentation hardening process and the effect of product output on downstream occur during cooling and hardening e achieved by cooling and hardening process titics on cooling and hardening process performance d parameters, and corrective action required where operation is outside ters d related causes, including: i faulty equipment obtential problems the cooling and hardening process, such as inspecting, measuring and process ontrol points) in the process, and the related procedures and recording in and corrective action required fety risks associated with the process and related control measures ards and controls nutdowns as appropriate to the process and workplace production shutdowns the event of a power outage out procedures and responsibilities ity for reporting production and performance information controls relevant to the cooling and hardening process, including waste cedures of process control, including the relationship between control panels and quipment

Assessment Conditions

Assessment of this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective clothing and equipment
 - cooling and hardening process and related equipment and services
 - cleaning materials equipment and procedures
- specifications:
 - work procedures, including advice on safe work practices, food safety, quality and environmental requirements
 - · stock flow systems, production schedules and batch or recipe instructions
 - · information on equipment capacity and operating parameters
 - specifications, control points and processing parameters
 - sampling schedules and test procedures and equipment
 - documentation and recording requirements and procedures
- relationships:
 - interactions with team members and supervisors or realistic scenarios or roleplays.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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