

FDFCEL2015A Perform must draining operations

Release: 2



FDFCEL2015A Perform must draining operations

Modification History

This unit supersedes and is equivalent to FDFCELMDA Perform must draining operations. April 2012: Minor typographical corrections.

Unit Descriptor

Unit descriptor	This specialist unit has been developed for the cellar stream of the wine sector. It covers the skills and knowledge required to prepare
	for and operate must draining operations prior to pressing.

Application of the Unit

covers the set up of equipment, monitoring draining, dealing with non-conformances and appropriate handling of waste. Equipment may be manual or computer controlled.	Application of the unit	non-conformances and appropriate handling of waste. Equipment
---	-------------------------	---

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		
	FDFCEL2019A	Carry out transfer operations

Approved Page 2 of 13

Employability Skills Information

Employability skills	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.

Approved Page 3 of 13

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA		
Prepare for must draining operations	 1.1 Product and materials are confirmed and available to meet production requirements 1.2 Product and materials are prepared to meet production requirements 1.3 Services are confirmed as available and ready for operation 1.4 Equipment is checked to confirm readiness for use 1.5 The process is set to meet production requirements 		
2. Operate and monitor must draining operations	 2.1 The must draining process is started up according to workplace procedures 2.2 Control points are monitored to confirm performance is maintained within specification 2.3. Must meets specification 2.4 Equipment is monitored to confirm operating condition 2.5 Out-of-specification product, process and equipment performance is identified, rectified and/or reported 		
3. Complete must processing operations	 3.1 The process is shut down according to workplace procedures 3.2 Equipment prepared for cleaning 3.3 Waste generated by both the process and cleaning procedures is collected, treated and disposed of, or recycled according to workplace procedures 3.4 Work is conducted in accordance with workplace environmental guidelines 		
4. Record information	4.4 Workplace information is recorded in the appropriate format		

Approved Page 4 of 13

Required Skills and Knowledge

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

Required skills include:

Note: The following required skills should be applied as appropriate to the equipment and processes that are used in the particular winery or workplace.

Ability to:

- access workplace information to identify draining requirements
- select, fit and use personal protective clothing and/or equipment
- confirm supply of necessary product, materials and services
- liaise with other work areas
- prepare product and materials as required. This may include:
 - checking receival vessels
 - maintaining gas cover for skin separation
 - gassing empty drainer prior to product entry
- confirm equipment status and condition. This may include checking:
 - screen fit and condition
 - press and crushing operations
 - cleaning and/or sanitisation requirements have been met
 - position or alignment of valves
 - · integrity of door seal
- start up the process
- monitor the process and equipment operation to identify out-of-specification results or non-compliance. This may involve monitoring:
 - draining effectiveness
 - product loss
 - dilution
 - oxidation
 - relevant product characteristics (e.g. skin contact and moisture)
- monitor supply and flow of product and 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 and batch changeovers
- · follow confined space entry policies and procedures when 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 shutdown requirements
- record workplace information
- maintain work area to meet housekeeping standards
- prepare equipment for cleaning. This may involve draining and/or dismantling equipment,

Approved Page 5 of 13

and removing waste either manually or by rinsing, in preparation for sanitation

- identify, rectify and/or report environmental non-compliance
- clean and sanitise equipment according to enterprise procedures
- · take samples according to enterprise procedures
- make additions according to enterprise procedures
- carry out inert gas handling operations according to enterprise procedures
- carry out routine maintenance according to enterprise procedures
- use oral communication skills/language 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 includes:

Note: The following required knowledge should be applied as appropriate to the equipment and processes that are used in the particular winery or workplace.

Knowledge of:

- purpose and principles of must draining operations
- link to related processes
- stages and changes which occur during draining
- effect of process stages on end product
- quality characteristics and uses of product and materials
- product and materials preparation requirements and effect of variation on the process
- main methods used in must draining
- techniques that may be used to manipulate must draining operations and wine characteristics, including:
 - pressure
 - temperature
 - carbon dioxide
 - skin contact
- process specifications, procedures and operating parameters
- equipment and instrumentation components, purpose and operation
- basic operating principles 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
- Occupational Health and Safety (OHS) hazards and controls, specifically confined space entry
- lock-out and tag-out procedures
- procedures and responsibility for reporting problems
- environmental issues and controls
- shutdown and cleaning requirements associated with changeovers and types of shutdowns
- waste handling requirements and procedures

Approved Page 6 of 13

- recording requirements and procedures
- cleaning and sanitation procedures where relevant
- · sampling procedures where relevant
- preparing and making additions where relevant
- inert gas handling procedures where relevant
- routine maintenance procedures where relevant

Approved Page 7 of 13

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	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.	
Critical aspects for assessment and	Evidence of ability to:	
evidence required to demonstrate competency in this unit	• use personal protective equipment and follow other specified OHS procedures	
	check must before commencing draining operations. This may include maintenance of gas cover, and checking temperature and alcoholic strength	
	• prepare and confirm status of equipment before commencing draining, including:	
	screen fit and condition	
	 press and crushing operations 	
	 cleaning and/or sanitisation requirements have been met 	
	 position or alignment of valves 	
	 integrity of door seal 	
	• monitor process control points and equipment during draining process	
	• monitor juice supply, flow and characteristics for conformance to specifications	
	take corrective action in response to out-of-	

Context of and specific resources for assessment

Assessment must occur in a real or simulated workplace where the assessee has access to:

collect treat or dispose of waste in accordance with

demonstrate knowledge of OHS hazards, controls

undertake routine and emergency shutdowns

personal protective clothing and equipment as required

specification results or non-compliance

work procedures, including advice on company

Approved Page 8 of 13

specifications

and emergency procedures

record information appropriately.

EVIDENCE GUIDE	
	practices, safe work practices, food safety, quality and environmental requirements
	 instructions, information, specifications and schedules as required
	 equipment, services and corresponding information as required
	 products and materials as required
	 internal and external customers and suppliers as required
	 cleaning procedures, materials and equipment as required
	 documentation and recording requirements and procedures.

Approved Page 9 of 13

EVIDENCE GUIDE		
Method of assessment	This unit should be assessed together with other units of competency relevant to the function or work role.	
Guidance information for assessment	To ensure consistency in one's performance, competence 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.	

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 in accordance with workplace procedures, licensing requirements and legislative requirements	
Workplace information	 Workplace information can include: Standard Operating Procedures (SOPs) specifications production schedules and instructions routine maintenance schedules work notes Material Safety Data Sheets (MSDS) manufacturer instructions verbal direction from manager, supervisor or senior operator 	
Equipment	Equipment may include: • static drainers • incline drainers • counter-current roller strainer • swept-arm and static fermenters • rotary fermenters • membrane or batch press	

Approved Page 10 of 13

DANIZIE SYDAYNONIONION	
RANGE STATEMENT	notomy aliin computano
	rotary skin separators
	jetting equipment
	blowers
	augers
	hoppers
	conveyor belts
	must pumps
	lines and fittings
•	drag screen

Approved Page 11 of 13

RANGE STATEMENT	
Product and materials	Product and materials may include: • a range of crushed grape varieties (must)
Services	Services may include: • power • water • compressed air • inert gas
Confirming equipment status	 Confirming equipment status involves: checking that hygiene and sanitation standards, safety standards and pre-start requirements are met and that equipment is operational checking the operation and calibration status of measuring instrumentation
Monitoring the process	Monitoring the process may involve: • the use of production data • sampling • checking tank levels • sight glass
Process set up, operation and monitoring functions	Process set up, operation and monitoring functions may be: • manual or involve the use of a process control system
Control points	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 • inspection points
Information systems	Information systems may be: • print or screen based
Work hazards	Work may involve exposure to: • chemical, dangerous or hazardous substances

Unit Sector(s)

Approved Page 12 of 13

Unit sector	Wine operations	
-------------	-----------------	--

Custom Content Section

Not applicable.

Approved Page 13 of 13