



Australian Government

Department of Education, Employment and Workplace Relations

FDFCEL2005A Operate the pressing process

Release: 2

FDFCEL2005A Operate the pressing process

Modification History

This unit supersedes and is equivalent to FDFCELPPB Operate the pressing process.
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 the pressing process.
------------------------	--

Application of the Unit

Application of the unit	This unit applies to cellar staff who operate pressing equipment in winemaking enterprises. Product may include a range of crushed grape varieties (must) and whole fruit bunches, and materials. The pressing process may include making additions and finings. Presses may include basket press, horizontal hydraulic press, horizontal screw press, continuous screw press and pneumatic press. The unit can apply to both manual and computer-controlled leaf filter and lees filter equipment.
--------------------------------	---

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		
	FDFCEL2019A	Carry out transfer operations

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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare the pressing process for operation	1.1 Product and materials are confirmed and available to meet pressing requirements 1.2 Product and materials are prepared to meet pressing 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 pressing requirements
2. Operate and monitor the pressing process	2.1 The pressing process is started up according to workplace procedures 2.2 Control points are monitored to confirm performance is maintained within specification 2.3 Pressed product 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. Shut down the pressing process	3.1 The process is shut down according to workplace procedures 3.2 Equipment is dismantled and 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	4.1 Workplace information is recorded in the appropriate format

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 pressing requirements
- select, fit and use personal protective clothing and/or equipment
- confirm supply of necessary product and materials and services
- liaise with other work areas
- confirm equipment status and condition. This may include checking for:
 - exposed or reactive metal parts
 - lubricating or hydraulic fluid leaks
 - screen fit and condition
 - bag and/or screw fit and condition
 - receival vessels and must processing operations (availability and schedule)
 - setting speed of screw
 - attaching hoses and/or opening valves
 - setting pumps and lines from collection trays into receival tanks
- set up and start up the process
- monitor the process and equipment operation to identify out-of-specification results or non-compliance. This may involve monitoring:
 - press program
 - press pressure
 - pressing effectiveness
 - dosage of additions
 - product loss
 - dilution
 - oxidation
 - speed of screw
 - free run quality and/or flow
 - inclines quality and/or flow
 - pressings quality and/or flow
 - relevant product characteristics (marc moisture, solids content and press fractions)
- 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 or 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, and removing waste either manually or by rinsing, in preparation for cleaning and sanitation
- identify, rectify and/or report environmental non-compliance
- take samples according to enterprise procedures
- prepare and make additions and finings according to enterprise procedures
- clean and sanitise equipment according to enterprise procedures
- handle inert gas 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 pressing
- link to related processes
- stages and changes which occur during pressing
- effect of process stages on end product
- quality characteristics and uses of pressing product and materials (e.g. grape variety)
- product and materials preparation requirements and effect of variation on the process
- main methods used in pressing
- pressing techniques that may be used to manipulate the characteristics of the wine. These may include:
 - degree of pressing and/or pressure
 - blending and/or separating free run juice from first and later pressings
 - press type (e.g. bladder versus screw)
- 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
- recording requirements and procedures
- sampling techniques where relevant
- preparing and making additions and finings where relevant
- cleaning and sanitising procedures where relevant
- inert gas handling procedures where relevant
- routine maintenance 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	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 required to demonstrate competency in this unit	Evidence of ability to: • use personal protective equipment and follow other specified OHS procedures • check supply and status of product, additions and finings before operating press • check pressing equipment status and condition before commencing operation • monitor pressing process control points and equipment during pressing • take corrective action in response to out-of-specification results or non-compliance • demonstrate knowledge of OHS hazards, controls and emergency procedures • sort, collect, treat, recycle or dispose of waste • record information appropriately.
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 as required • work procedures, including advice on company 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

EVIDENCE GUIDE	
	documentation and recording requirements and procedures.
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 or 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: - basket press - horizontal hydraulic press - horizontal screw press

RANGE STATEMENT	
	• continuous screw press • pneumatic press
Product and materials	Product and materials may include: • a range of crushed grape varieties (must) • whole fruit bunches • additions, including sulphur dioxide and pressing aids (e.g. cellulose and grape stalks)
Services	Services may include: • power • water • compressed air • inert gas • steam
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
Process set up, operation and monitoring	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)

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

Custom Content Section

Not applicable.