



Australian Government

FBPCEL2008 Carry out inert gas handling operations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to use and handle inert gases in solid or gaseous state including the manufacture of carbon dioxide bricks or snow.

The unit applies to individuals who work in cellar operations and take responsibility for their own work. Individuals generally work under supervision but have some autonomy and accountability for their own work.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, and food safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Cellar Operations (CEL)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Select gases appropriate to the task	1.1 Identify and confirm workplace procedures 1.2 Confirm availability of appropriate gas or gases to meet workplace procedures 1.3 Confirm environmental guidelines and identify potential health

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and safety hazards and controls according to workplace procedures 1.4 Select and fit personal protective equipment required for production 1.5 Determine risk factors based on the characteristics of the gas or gases to be used and handled
2. Prepare and use gases in winery operations	2.1 Select the appropriate gas handling equipment and prepare, set up and operate according to workplace procedures 2.2 Confirm that gas type and quantity delivered meets specification 2.3 Handle and monitor gas safely according to specific risk factors 2.4 Manufacture carbon dioxide bricks or snow according to workplace procedures 2.5 Identify and address non-conformance of product, process and equipment
3. Complete gas handling operations	3.1 Shut equipment down according to workplace procedures 3.2 Prepare equipment for cleaning following safe work practices 3.3 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures 3.4 Record workplace information 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	Comprehend instructions in workplace documents
Writing	Complete workplace documents in required format
Numeracy	Calculate and monitor amount of gas required for the process
Navigate the world of work	Apply workplace procedures and legislative responsibilities to own role

Skill	Description
Interact with others	• Use required communication mode to report operational information to relevant personnel
Get the work done	• Plan, sequence and implement tasks according to set routines and procedures • Respond to routine problems using workplace instructions and procedures

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPCEL2008 Carry out inert gas handling operations	FDFCEL2018A Carry out inert gas handling operations	Updated to meet Standards for Training Packages Minor changes to Elements and Performance Criteria for clarity	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPCEL2008 Carry out inert gas handling operations

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has carried out inert gas handling operations and demonstrated the following on at least two separate occasions:

- accessing workplace information to identify inert gas handling requirements
- selecting, fitting and using personal protective equipment (PPE)
- selecting appropriate gases to meet requirements:
 - single or blend of gases
 - gaseous or solid form
 - dosage
 - interpreting cylinder or service line information
- confirming supply of services and gases for requirements
- selecting equipment appropriate to the task and gas to be handled
- setting up, preparing and operating equipment according to workplace procedures
- manufacturing carbon dioxide bricks or snow
- delivering gas according to specifications
- monitoring gas handling process:
 - gas pressure
 - gas flow
 - integrity of seals
- taking corrective action in response to non-conformance results
- shutting down equipment in routine situations
- conducting work according to environmental and health and safety requirements in the workplace.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose and principles of using inert gases in cellar operations
- properties and functions of gases
- hazards and risks associated with different forms or types of gas
- gas handling policy and procedures
- factors affecting choice of gas or gas blends:
 - wine type and style
 - winemaker preference
- equipment set up, preparation and operation procedures and requirements including settings and key variables
- purpose of PPE
- legislative requirements as they affect immediate gas handling responsibilities
- steps in manufacturing process for dry ice bricks or snow
- requirements to liaise or advise related work areas
- routine shutdown and cleaning preparation requirements
- workplace health and safety requirements
- workplace procedures and responsibility for:
 - reporting problems
 - waste handling requirements
 - environmental issues and controls
 - recording requirements.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a wine operations workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE for inert gas handling operations
 - equipment, cylinders and materials for inert gas handling operations
 - gas or gases to meet work instruction
 - system for recording and reporting information
- specifications:
 - workplace procedures for inert gas handling operations.

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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