



Australian Government

FBPLAB2001 Use basic laboratory equipment

Release: 1

FBPLAB2001 Use basic laboratory equipment

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 operate a range of basic laboratory equipment to accurately measure, weigh, separate and filter substances.

The unit applies to those who work in food and wine production and processing environments and carry out routine tests in line with established test methods and clear workplace procedures.

All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety, and food safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Laboratory (LAB)

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. Prepare basic laboratory equipment for use	1.1 Identify and confirm job requirements 1.2 Select and fit personal protective equipment in accordance with manufacturers' specifications 1.3 Confirm availability of materials, services and equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Ensure laboratory equipment is clean, safe, calibrated and ready to use
2. Use basic laboratory equipment and techniques	2.1 Set up and operate equipment in accordance with workplace procedures 2.2 Use laboratory equipment to accurately weigh, measure, separate and filter 2.3 Read and interpret results accurately 2.4 Identify and address non-conforming results
3. Complete equipment operation	3.1 Collect, treat and dispose of or recycle waste generated in accordance with workplace waste management policies 3.2 Clean and sanitise equipment and work surfaces after use in accordance with workplace requirements 3.3 Complete records according to workplace requirements

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	Interpret work instructions accurately
Writing	Record workplace information using industry-specific vocabulary
Numeracy	Accurately interpret readings from gauges and scales

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status

FBPLAB2001 Use basic laboratory equipment	FDFLAB2011A Use basic laboratory equipment	Updated to meet Standards for Training Packages Minor changes to Elements and Performance Criteria to clarify outcomes Foundation skills added	Equivalent unit
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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 FBPLAB2001 Use basic laboratory equipment

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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 set up, accurately used and cleaned basic laboratory equipment to perform four tasks from the following list:

- weighing
- centrifuging
- separating
- pipetting
- measuring
- titrating
- sterilising.

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 methods of use for a range of basic laboratory equipment
- purpose and methods used to calibrate equipment
- operation of equipment and instrumentation components
- standard tests carried out in the workplace and their purpose
- health and safety requirements for hazards and controls relevant to work role
- environmental issues and controls relevant to work role
- safety data sheets (SDS) for chemicals used
- workplace requirements for recording and reporting problems
- cleaning and sanitising requirements of equipment and work area.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a standard laboratory or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a laboratory space equipped with basic test equipment, sterilisation equipment, common measuring instruments, disinfecting and sterilising agents and media
- specifications:
 - standard methods, workplace procedures, SDS and equipment manuals.

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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