



Australian Government

FBPLAB2003 Perform basic analytical tests

Release: 1

FBPLAB2003 Perform basic analytical tests

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 perform a range of analytical tests and measurements in a standard laboratory environment.

The unit applies to individuals who apply basic laboratory principles to standard testing applications in industries related to the production of food and wine.

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 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 for testing	1.1 Identify and confirm job requirements 1.2 Confirm availability of required materials and services to meet testing requirements 1.3 Confirm environmental guidelines and identify potential workplace health and safety hazards and controls according to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	workplace procedures 1.4 Select and fit appropriate personal protective equipment as per manufacturers' specification 1.5 Register samples and prepare for testing 1.6 Select, prepare and check equipment in accordance with workplace procedures 1.7 Identify and report defects in samples, test materials and equipment
2. Perform testing	2.1 Carry out test methods according to workplace procedures 2.2 Use equipment and materials in accordance with workplace procedures 2.3 Read and interpret results accurately 2.4 Identify and address non-conformance results in accordance with workplace processes
3. Complete testing	3.1 Collect, treat and dispose of or recycle waste generated by the testing in accordance with workplace waste management policies 3.2 Clean and sanitise equipment and work surfaces after use according to 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 information from a variety of workplace documents
Writing	Record workplace information using industry-specific vocabulary
Numeracy	Accurately interpret readings from gauges and scales
Get the work done	Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPLAB2003 Perform basic analytical tests	FDFLAB2001A Perform basic analytical tests	Updated to meet Standards for Training Packages Prerequisite removed Minor changes to Performance Criteria to clarify outcomes Foundation skills added	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 FBPLAB2003 Perform basic analytical tests

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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 performed basic analytical tests, including:

- prepared samples using at least two different methods
- performed at least three basic tests using standard methods and procedures
- recorded results accurately.

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 of tests performed as part of job role and principles of the standard methods/specifications used
- sample preparation processes relevant to job role
- typical basic tests and methods relevant to job role
- measurements used for typical tests
- function of key components of the test equipment, pre-use equipment and safety checks
- common causes and effects of inaccuracies or contamination, and preventive or corrective action required
- normal range of results for products tested
- relevant standards, specifications and legislative requirements (quality, health, food safety, labelling and equipment) and their implications on testing requirements
- health and safety hazards and controls
- safety data sheets (SDS) for chemicals used
- environmental issues and controls relevant to work role
- 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, common measuring instruments, materials
- 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.

Links

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