



Australian Government

FBPTEC4007 Describe and analyse data using mathematical principles

Release: 1

FBPTEC4007 Describe and analyse data using mathematical principles

Modification History

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

Application

This unit of competency describes the skills and knowledge required to apply mathematical principles to analyse and interpret data relating to the properties and production process for food products, using common units of measurement, formulae and mathematical skills.

The unit applies to individuals who provide and communicate solutions to a range of predictable and sometimes unpredictable problems. They take responsibility for their own work and for the quality of others' work within known parameters.

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

Pre-requisite Unit

Nil

Unit Sector

Technical (TEC)

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. Use common units of measurement and dimensions in calculations for physical properties of materials and food	1.1 Identify International System of Units (SI) and related unit symbols 1.2 Apply common formulae used to measure characteristics of food 1.3 Perform calculations involving fractions and ratios

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Apply linear algebra to analyse workplace information	2.1 Perform linear algebraic calculations to determine unknown values 2.2 Apply principles of transposing values to solve workplace problems
3. Use graphs to analyse workplace information and analyse process control	3.1 Identify data analysis and presentation requirements 3.2 Generate graphs to analyse and display workplace information 3.3 Construct a statistical process control (SPC) chart to measure attributes and variables

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	<ul style="list-style-type: none"> Read and interpret workplace information to determine the need for mathematical interpretation
Navigate the world of work	<ul style="list-style-type: none"> Follow the international conventions for units of measurement

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPTEC4007 Describe and analyse data using mathematical principles	FDFTEC4007A Describe and analyse data using mathematical principles	Updated to meet Standards for Training Packages Prerequisites removed Minor changes to Performance Criteria	Equivalent unit

		for clarity	
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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>