



Australian Government

FBPTEC4010 Manage water treatment processes

Release: 1

FBPTEC4010 Manage water treatment processes

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 manage the usage and treatment of water used in food production stages such as washing and cooling, and the usage and treatment of wastewater.

The unit applies to individuals who work in a food production site, who take responsibility for managing water treatment systems and methods, and provide and communicate solutions to a range of predictable and sometimes unpredictable problems. The unit is not designed to meet the competency requirements of the person who specifies water quality standards and/or treatment methods.

No occupational licensing or certification requirements apply to this unit at the time of publication. However, legislative and regulatory requirements for food processing exist, so local requirements must be checked. All work must comply with Australian food safety standards and relevant codes of practice.

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. Manage water treatment processes	1.1 Identify uses of water within the plant and the related quality requirements for each use 1.2 Establish appropriate treatment methods to meet treatment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements 1.3 Identify environmental considerations for water treatment, and select and apply treatment options to minimise environmental impact 1.4 Develop or review procedures for treating water
2. Manage wastewater treatment and disposal	2.1 Identify sources and characteristics of wastewater generated across food processing operations 2.2 Evaluate methods for treating and recycling water 2.3 Implement appropriate treatment methods 2.4 Determine legal requirements for water discharge 2.5 Identify and monitor factors affecting the cost of water discharge 2.6 Identify conditions that could result in non-compliance, and implement control methods to prevent them from occurring 2.7 Develop or review procedures for treatment of wastewater to ensure compliance with trade waste standards, and to minimise environmental impact 2.8 Research and implement opportunities to reduce the volume of trade waste and to improve treatment methods

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"> Analyse documentation from a variety of sources relating to water treatment and reviews procedures
Writing	<ul style="list-style-type: none"> Revise procedural material for a specific audience using clear and detailed language in order to convey explicit information, requirements and recommendations
Numeracy	<ul style="list-style-type: none"> Perform mathematical calculations to analyse data and water treatment costs while reviewing water treatment options
Navigate the world of work	<ul style="list-style-type: none"> Implement improvement opportunities within own level of responsibility

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPTEC4010 Manage water treatment processes	FDFTEC4010A Manage water treatment processes	Updated to meet Standards for Training Packages Prerequisite removed Minor changes to 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>