



Australian Government

Assessment Requirements for FBPTEC4010 Manage water treatment processes

Release: 1

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Modification History

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

Performance Evidence

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

There must be evidence that the individual has effectively managed water treatment processes in food processing on at least one occasion, including:

- identifying and assessing water usage and disposal processes
- determining environmental impacts of water use, treatment and disposal
- identifying non-compliance associated with water quality
- assessing water treatment requirements and methods for water used in production
- evaluating costs associated with use, treatment and disposal of wastewater
- reviewing or developing wastewater procedures to ensure compliance with relevant standards
- researching and implementing at least one opportunity for improving wastewater management.

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:

- terms and concepts used to describe water quality:
 - potable
 - total residual chlorine
 - free residual chlorine
 - available chlorine
- uses of water in production, including:
 - water used in cooling applications
 - washing
 - flushing

- quantities and applications of water
- treatment stages in the processing system
- points where water could be more effectively conserved
- wastewater generated by the process
- principles of common methods used to treat trade waste and identifying typical applications, including:
 - primary treatment
 - secondary treatment
- requirements and methods for treatment of water used in production, including:
 - treatment methods currently in place
 - opportunities to improve resource utilisation through conserving water, changing materials and processing methods
 - treating and recycling wastewater more efficiently
- sustainable use of water, including legal, social and environmental consequences of releasing water to the environment
- characteristics that are monitored in wastewater and how these affect the cost of trade waste disposal
- rights of relevant authorities to enter the site and conduct independent sample collection and test procedures
- acceptable limits for water going to stormwater (pH range)
- conditions that could result in failure to comply with legal requirements for stormwater, and relevant control methods
- risks associated with water, including Legionella and related control measures
- characteristics of wastewater and related treatment requirements
- methods for recycling water.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace setting or an environment that accurately represents a real food processing workplace
- resources, equipment and materials:
 - site plans, including relevant advice on drainage system
 - monitoring equipment
- specifications:
 - workplace procedures and legislation relevant to water use and treatment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are found in VETNet: -

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