



**Australian Government**

# **NWPTRT038 Operate and control fixed film processes**

**Release: 1**

# NWPTRT038 Operate and control fixed film processes

## Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

## Application

This unit involves the skills and knowledge required to operate and control fixed film processes. It includes monitoring fixed film processes such as trickling filters, Moving Bed Bioreactor and rotating biological contactors. It also includes measuring and reporting on system performance and process quality control.

This unit applies to operational staff with a specific responsibility for fixed film processes in treatment assets. Those undertaking this unit would work under appropriate supervision, while performing routine tasks, within a range of familiar contexts.

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

## Pre-requisite Unit

Not applicable.

## Competency Field

Treatment

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Prepare for work

### PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Monitor test results and processes to maintain parameters of operation

1.2 Select and check equipment required to meet safety

|                                                                      |            |                                                                                                       |
|----------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------|
|                                                                      |            | requirements of task and worksite                                                                     |
|                                                                      | <b>1.3</b> | Select, fit and use required safety equipment, including personal protective equipment (PPE)          |
| <b>2 Operate and control fixed film aerobic bioreactor processes</b> | <b>2.1</b> | Conduct routine inspections according to workplace procedures                                         |
|                                                                      | <b>2.2</b> | Identify and report faults to relevant personnel                                                      |
|                                                                      | <b>2.3</b> | Collect process samples and conduct standard tests according to workplace procedures                  |
|                                                                      | <b>2.4</b> | Interpret data and make process adjustments to maintain operational parameters                        |
| <b>3 Complete documentation</b>                                      | <b>3.1</b> | Collect, interpret and record process data according to workplace procedures and process requirements |
|                                                                      | <b>3.2</b> | Identify data outside of normal operational parameters to relevant personnel for further action       |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to NWPTRT083 Operate and control aerobic bioreactor processes.

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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