



Australian Government

NWPTRT083 Operate and control aerobic bioreactor processes

Release: 1

NWPTRT083 Operate and control aerobic bioreactor processes

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP350B Monitor, operate and control trickling filter processes. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes

Application

This unit of competency describes the skills required to monitor, operate and control fixed film aerobic bioreactor processes, including trickling filters and rotating biological contactors. This unit of competency also describes the outcomes required to measure and report on system performance and process quality control.

This unit supports the attainment of skills and knowledge required for operational staff with a specific responsibility for fixed film aerobic bioreactor processes in treatment plants.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to, particularly those relating to safety.

Those undertaking this unit would work under supervision, while performing routine tasks, within a range of familiar contexts.

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

Competency Field

Treatment

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Monitor fixed film aerobic bioreactor process performance	1.1 Monitor test results and processes. 1.2 Identify and report faults and the operational condition of the process.
2. Operate and control fixed film aerobic bioreactor processes	2.1 Select and check equipment and tools required to meet safety requirements of task and site. 2.2 Select, fit and use personal protective equipment. 2.3 Carry out routine plant inspections. 2.4 Collect process samples and conduct standard tests. 2.5 Carry out system adjustments and process calculations to enhance system performance.
3. Complete documentation	3.1 Collect, interpret and record process data. 3.2 Report observations outside defined parameters for further action.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to NWP350B Monitor, operate and control trickling filter processes.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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