NWPTRT091 Operate and control solids handling processes

Release: 1

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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 NWP360B Monitor, operate and control dewatering 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 describes the skills required to monitor, operate and control water and wastewater dewatering and sludge thickening plant and to measure and report on system performance and process quality control. The ability to identify faults, determine and apply technical adjustments andconduct chemical dosing procedures is essential to performance.

This unit applies to those working as operational staff with a specific responsibility for water and/or wastewater dewatering and sludge thickening processes in a treatment plant.

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 storing and handling dangerous goods and chemicals and WHS.

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

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 dewatering process performance	1.1 Monitor test results and processes to maintain the parameters of operation. 1.2 Identify and report process faults and the operational condition of plant.
2. Control chemical use	2.1 Use, handle and store chemicals. 2.2 Determine and carry out chemical dosing. 2.3 Maintain chemical supply and usage records. 2.4 Select, fit and use required safety equipment, including personal protective equipment.
3. Operate and control dewatering processes	3.1 Carry out routine plant inspections. 3.2 Conduct and analyse process tests and determine performance against plant operational requirements. 3.3 Make integrated process adjustments to optimise system performance. 3.4 Collect, interpret and record process data.
4. Complete documentation	4.1 Compile reports from plant and system data. 4.2 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
		3						4				3					3					3		
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
	2					2						3					3		
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 NWP360B Monitor, operate and control dewatering 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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