



Australian Government

MSTGN3017 Monitor and operate trade waste process

Release: 1

MSTGN3017 Monitor and operate trade waste process

Modification History

Release 1. Supersedes **and is equivalent to** MSTGN3007 Monitor and operate trade waste.

Application

This unit of competency describes the skills and knowledge required to monitor, operate, measure and report on trade waste system performance and process quality control in work areas / processing plant operations. Work may be conducted in restricted spaces or exposed conditions or controlled or open environments.

This unit applies to all sectors of the textiles, clothing and footwear (TCF) industry.

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures under direct supervision.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Generic

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. Monitor treatment plant performance	1.1 Determine job and safe work requirements from work information 1.2 Conduct and assess routine waste treatment plant inspections in accordance with organisational and plant requirements 1.3 Collect and conduct tests of waste samples in accordance with organisational and plant requirements 1.4 Collect and report waste process data in accordance with organisational and plant requirements 1.5 Identify and report corrosion damage
2. Control chemical use	2.1 Use, handle and store chemicals used in waste treatment in accordance with organisational and statutory requirements

Elements <i>Elements describe the essential outcomes.</i>	Performance Criteria <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	2.2 Prepare chemical dosing for waste treatment in accordance with plant processes and organisational and statutory requirements 2.3 Maintain information related to chemical supply and usage in accordance with statutory requirements 2.4 Interact and communicate with other employees and relevant authorities about chemical use and supplies
3. Operate and control processes	3.1 Monitor processes to maintain parameters of waste treatment operation 3.2 Identify and report process faults and operational conditions of plant in accordance with organisational and statutory requirements 3.3 Make basic system adjustments to enhance system performance to ensure waste treatment complies with organisational and statutory requirements 3.4 Compile reports developed from plant and system data to meet organisational and statutory requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Reading skills to interpret statutory requirements for waste treatment
- Numeracy skills to accurately measure and mix doses for waste treatment and interpret test results.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes **and is equivalent to** MSTGN3007 Monitor and operate trade waste.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

Assessment Requirements for MSTGN3017 Monitor and operate trade waste process

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- operated and maintained a trade waste treatment system for at least 1 waste product, including:
 - conducting routine plant inspections
 - collecting and conducting tests of process samples
 - complying with organisational and statutory requirements for chemical use and waste processing
 - complied reports using data extracted from plant and system.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- key requirements of Australian and industry standards, regulations and codes of practice relevant to waste product and waste disposal
- Environment Protection Authority (EPA) requirements for disposing of trade waste, including licencing arrangements and types of waste that can be discharged into sewers
- types of samples taken, and tests carried out on waste, and their purpose, including:
 - dissolved oxygen
 - pH
 - settling tests
- waste processing, including:
 - activated sludge
 - biodegradable reduction
 - chemical precipitation
 - solids handling
- chemical dosing processes
- hazardous material handling procedures
- work health and environmental aspects of relevant testing processes
- monitoring systems and equipment, including:
 - electronic monitoring and metering systems
 - manual chart recording systems

- laboratory testing and sampling equipment
- computerised equipment
- workplace recording and reporting practices.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - waste treatment plant set up with standard operating procedures (SOPs)
 - regulatory and organisational requirements for waste treatment.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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