



**Australian Government**

# **MSTGN3007 Monitor and operate trade waste**

**Release: 1**

# MSTGN3007 Monitor and operate trade waste

## Modification History

Release 1. Supersedes and is equivalent to LMTGN3007B Monitor and operate trade waste

## Application

This unit of competency covers the skills and knowledge required to monitor, operate, measure and report on trade waste system performance and process quality control.

This unit of competency applies to processing plant operations and inspection of work areas, monitoring, operating, measuring and reporting on trade waste systems.

Work may be conducted in restricted spaces or exposed conditions or controlled or open environments.

This unit of competency is applicable 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, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Nil

## Competency Field

Generic

## Unit Sector

Not applicable

## Elements and Performance Criteria

Elements describe the essential outcomes.

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

|   |                                   |     |                                                                    |
|---|-----------------------------------|-----|--------------------------------------------------------------------|
| 1 | <b>Determine job requirements</b> | 1.1 | Follow standard operating procedures (SOPs)                        |
|   |                                   | 1.2 | Comply with work health and safety (WHS) requirements at all times |
|   |                                   | 1.3 | Use appropriate personal protective equipment (PPE) in             |

|   |                                            |     |                                                                                                                                     |
|---|--------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------|
|   |                                            |     | accordance with SOPs                                                                                                                |
|   |                                            | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions                                            |
| 2 | <b>Monitor treatment plant performance</b> | 2.1 | Conduct and assess routine plant inspections in accordance with organisational and plant requirements                               |
|   |                                            | 2.2 | Collect and conduct tests of process samples                                                                                        |
|   |                                            | 2.3 | Collect and report process data according to organisational and plant requirements and workplace procedures                         |
|   |                                            | 2.4 | Identify corrosion damage                                                                                                           |
| 3 | <b>Control chemical use</b>                | 3.1 | Use, handle and store chemicals in accordance with organisational and statutory requirements                                        |
|   |                                            | 3.2 | Prepare chemical dosing in accordance with plant processes and organisational and statutory requirements                            |
|   |                                            | 3.3 | Maintain information related to chemical supply and usage in accordance with statutory requirements                                 |
|   |                                            | 3.4 | Interact and communicate with other employees and relevant authorities                                                              |
| 4 | <b>Operate and control processes</b>       | 4.1 | Monitor processes to maintain parameters of operation                                                                               |
|   |                                            | 4.2 | Identify and report process faults and operational conditions of plant in accordance with organisational and statutory requirements |
|   |                                            | 4.3 | Assess basic system adjustments to enhance system performance in accordance with organisational and statutory requirements          |
|   |                                            | 4.4 | Compile reports compiled from plant and system data to meet organisational and statutory requirements                               |

## Foundation Skills

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

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

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

**Workplace procedures include one or more of the following:**

- requirements prescribed by legislation, awards, agreements and conditions of employment
- SOPs
- work instructions
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling
- WHS practices

**Australian Standards include:**

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

**Process includes, but is not limited to, one or more of the following:**

- chemical precipitation
- activated sludge
- biodegradable reduction
- solids handling

**Data includes, but is not limited to, one or more of the following:**

- plant performance data
- chemical usage

**Tests include, but are not limited to, one or more of the following:**

- settling tests
- pH
- dissolved oxygen

**System adjustments include, but are not limited to, one or more of the following:**

- pH correction
- dissolved oxygen levels

**Equipment includes, but is not limited to, one or more of the following:**

- electronic monitoring and metering systems
- manual chart recording systems
- laboratory testing and sampling equipment
- computerised equipment

## Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTGN3007B 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 MSTGN3007 Monitor and operate trade waste

## Modification History

Release 1. Supersedes and is equivalent to LMTGN3007B Monitor and operate trade waste

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices
- applying relevant standards
- conducting routine plant inspections, assessing processes, and collecting and conducting tests of process samples, in accordance with organisational and plant requirements
- complying with organisational and statutory requirements to use, handle and store chemicals, prepare and apply chemical and biological dosing
- maintaining accurate records of test results/work records
- communicating effectively within the workplace and maintaining information related to chemical supply and usage
- interpreting and applying established procedures
- identifying and reporting process faults and operational conditions of plant in accordance with organisational and statutory requirements
- compiling reports compiled from plant and system data to meet organisational and statutory requirements
- applying workplace procedures.

## Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- industry process and equipment
- system hydraulics and layout, control systems
- chemical dosing processes
- hazardous material handling procedures
- work health and safety (WHS) and environmental aspects of relevant testing processes
- workplace procedures and reporting processes
- quality practices
- workplace procedures
- recording and reporting practices.

## Assessment Conditions

- Assessors must:
  - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
  - have vocational competency in monitoring and operating trade waste, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The unit is applicable to all TCF sectors and assessment must ensure it is delivered to suit the industry it is being applied to.

## Links

Companion Volume implementation guides are found in VETNet -

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