

Title	Load pulp and paper chemical by-products into road or rail tankers		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: identify chemical by-product tanker loading equipment and associated requirements; prepare for chemical by-product tanker loading; load chemical by-products to the tanker; and complete the loading process.
----------------	--

Classification	Wood Fibre Manufacturing > Pulp and Paper - Chemical Plants
-----------------------	---

Available grade	Achieved
------------------------	----------

Explanatory notes

1 Definition

Worksite documentation refers to instructions to staff on policy and procedures (including the application of legislation to worksite situations) which are formally documented, and are available for reference at the worksite. Examples are standard operating procedures, specifications, manuals, and manufacturer's information.

2 The following apply to the performance of all outcomes of this unit standard:

- a All work practices must meet recognised codes of practice and documented worksite health and safety and environmental procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required under current legislation, including the Health and Safety in Employment Act 1992, the Resource Management Act 1991, the Hazardous Substances and New Organisms Act 1996, and their subsequent amendments.
- b All work practices must meet documented worksite operating procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
- c All communications made in relation to this unit standard must be made in accordance with worksite procedures for content, recipient, timing, and method.

Outcomes and evidence requirements

Outcome 1

Identify chemical by-product tanker loading equipment and associated requirements.

Evidence requirements

- 1.1 Tanker loading equipment and associated requirements are identified in accordance with worksite documentation.

Range may include but is not limited to – data transfer, communication systems, control systems, additives, odorant, loading pumps, meters, storage tanks, pipelines, hoses, loading arms, weigh bridges, manifolds, drainage and bunding facilities, earthing and bonding facilities.

- 1.2 Safety equipment is identified in accordance with worksite documentation.

Range may include but is not limited to – signage, barriers, fire extinguishers, hoses, fire monitors, fire hydrants, foam systems, fire alarms, fire detectors, deluge systems, personal protective equipment.

Outcome 2

Prepare for chemical by-product tanker loading.

Evidence requirements

- 2.1 Potential hazards are identified, and the steps required to eliminate them are explained, in accordance with worksite documentation.

- 2.2 Loading documentation is checked in accordance with worksite documentation.

- 2.3 Preloading checks are carried out in accordance with worksite documentation.

Range may include but is not limited to – tanker positioning and connection, safety considerations, equipment availability, simultaneous loading and operations, inter-tank transfers, product quality and quantity, tanker contents and condition, earthing checks, New Zealand Transport Agency certification for prime mover and tank, drivers dangerous goods licence endorsement, current site safety induction.

- 2.4 Safety equipment is available and used in accordance with worksite documentation.

Range may include but is not limited to – personal protective equipment, multi-meter, fixed fire protection, barriers, signage, emergency shutdown systems, gas detection systems, safety shower, eyewash facilities.

Outcome 3

Load chemical by-products to the tanker.

Evidence requirements

- 3.1 Loading equipment is connected and started in accordance with worksite documentation.
- Range may include but is not limited to – customer requirements, earth connection, valving, tank capacity, level protection, pumps, compressors.
- 3.2 Additive or odorant injection is carried out in accordance with legislative requirements and worksite documentation.
- 3.3 Product sampling is carried out in accordance with worksite documentation.
- 3.4 Loading rates are controlled and monitored to ensure the product is loaded safely and within the tanker's defined storage capacities.
- 3.5 Communication is maintained to determine the progress of the loading, tank levels, and volumes with relevant parties.
- Range may include but is not limited to – operator, driver, control room operator.
- 3.6 Deviations from normal operating conditions are identified, and corrective actions are taken, in accordance with worksite documentation.
- Range may include but is not limited to – vapour lock, pressure differential, operator error, spills, leaks, earth faults, excess flow, contamination, instrument malfunction, overfill; evidence of corrective action for five deviations is required.

Outcome 4

Complete the loading process.

Evidence requirements

- 4.1 Loading operation is verified as complete and equipment is shut down in accordance with worksite documentation.
- Range may include but is not limited to – shut down, isolation, disconnection.
- 4.2 Documentation is completed, and the results of the loading or transfer are communicated to appropriate personnel, in accordance with worksite documentation.
- Range may include but is not limited to – dangerous goods declaration, bills of lading, load receipts, weighbridge documents, product certificate of quality, log books, computer records.

Planned review date	31 December 2019
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 December 2006	N/A
Review	2	24 October 2014	N/A

Consent and Moderation Requirements (CMR) reference	0173
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.