

Title	Demonstrate knowledge of the management of resources for port operations		
Level	5	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of and control port operations resources and variables.
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Classification	Stevedoring and Ports Industry > Cargo Operations
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Available grade	Achieved
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Guidance Information

- 1 Legislation and formal requirements relevant to this unit standard may include the following Acts and Regulations:
 Health and Safety in Employment Act 1992;
Approved Code of Practice for Health and Safety in Port Operations available at <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/port-operations-code-of-practice-for-health-and-safety-in;>
 Biosecurity Act 1993;
 Customs and Excise Act 1996;
 Resource Management Act 1991;
 Hazardous Substances and New Organisms Act 1996;
 Maritime Security Act 2004.
- 2 Definition
Company policies and procedures refers to relevant workplace documents which are current and accessible to candidates, trainers, and assessors, and which comply with legal requirements.
- 3 Competence in the outcomes of this unit standard may be demonstrated using case studies or on-job situations.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of port operations resources and variables.

Performance criteria

- 1.1 The implications of time variations are explained for port cargo movements.

Range time capacity, supply chain consequential effects, flow-on effect deadlines, tides, resource implications, other operations, cargo prioritisation and sequencing, managing resource allocation in peaks and troughs, fumigation, time critical cargos, damaged cargo, overweight and oversized cargo, cargo time sensitivity (deterioration effects), perishability, productivity and exchange rates, ship movement effects (late arrival and early departure contingency), congestion, optimisation.

1.2 The effect of cargo movement variables on storage in a port yard is explained.

Range management of space, marshalling cargo, space constraint management, congestion, yard rotation, change of port, preparing cargo for vessel sequencing, prioritisation, identification of issues, fumigation, optimisation of available space.

1.3 Human resource considerations are identified for a cargo movement at a port, and human resource requirements are determined for the safe and efficient operation of cargo movements within a port according to company policies and procedures.

Range capacity, availability, absenteeism, skill and knowledge, allocation and monitoring, contingency planning, utilisation, downtime, team dynamics and composition, cross-organisational communication, seasonality, managing resource allocation in peaks and troughs, identifying training requirements, planning for confined space, working at heights.

1.4 Machinery resource considerations are identified for a cargo movement at a port and machinery requirements are determined for the safe and efficient operation of cargo movements within a port according to company policies and procedures.

Range fitness for purpose, safety, maintenance, capability, capacity, availability, cost implications, back up availability, breakdown management, environmental response, cross organisational communication, prioritisation, seasonality.

1.5 Weather and environmental effects are identified in relation to shipping movements at a port and contingency and planning is explained according to company policies and procedures.

Range effects include – shipping movements delays, precautions, effects on cargo, cargo loading and stacking, segregation, port exposure, mooring and lashing, biosecurity/prevalence of insects, seasonality, temperature effects, health and safety of personnel.

Outcome 2

Control port operations resources and variables.

Performance criteria

- 2.1 Time capacity is controlled for port cargo movements in accordance with logistic variables.
- Range five of – supply chain consequential effects, flow-on effect deadlines, tides, resource implications, other operations, cargo prioritisation and sequencing, managing resource allocation in peaks and troughs, fumigation, time critical cargos, damaged cargo, overweight and oversized cargo, cargo time sensitivity (deterioration effects), perishability, productivity and exchange rates, ship movement effects (late arrival and early departure contingency), congestion, optimisation.
- 2.2 Resource capacity is controlled for port cargo movements in accordance with logistical variables.
- Range control of space, marshalling, sequencing and optimisation.
- 2.3 Labour resources are controlled for port cargo movements in accordance with logistical variables.
- Range five of – capacity, availability, absenteeism, skill and knowledge, allocation and monitoring, contingency planning, utilisation, downtime, team dynamics and composition, cross-organisational communication, seasonality, managing resource allocation in peaks and troughs, identifying training requirements, planning for confined space, working at heights.
- 2.4 Machinery resources are controlled for port cargo movements in accordance with logistical variables.
- Range five of – fitness for purpose, safety, maintenance, capability, capacity, availability, cost implications, back up availability, breakdown management, environmental response, cross organisational communication, prioritisation, seasonality.
- 2.5 Weather and environmental issues are managed for port cargo movements in accordance with logistical variables.
- Range five of – shipping movement delays, precautions, effects on cargo, cargo loading and stacking, segregation, port exposure, mooring and lashing, biosecurity/prevalence of insects, seasonality, temperature effects, health and safety of personnel.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 September 2015	31 December 2022
Review	2	29 July 2021	31 December 2022

Consent and Moderation Requirements (CMR) reference	0145
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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