

| | | | |
|--------------|---|----------------|----------|
| Title | Evaluate new and emerging technology applicable to the road transport and logistics industry | | |
| Level | 5 | Credits | 5 |

| | |
|----------------|--|
| Purpose | People credited with this unit standard are able to: describe information systems used in the road transport and logistics industry; investigate new and emerging technology applicable to the road transport and logistics industry; and evaluate the need to deploy new technology and explain the associated impacts. |
|----------------|--|

| | |
|-----------------------|---|
| Classification | Commercial Road Transport > Road Transport Management |
|-----------------------|---|

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

Guidance Information

1 Definitions

Emerging technology refers to technology that is not yet widely used or that is still in the development stage.

New technology may include equipment and/or tools, base materials, or systems unfamiliar to and/or not introduced by the company previously.

Workplace procedures refers to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, manufacturer's requirements, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the commercial road transport sector.

2 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, workplace procedures and legislative requirements.

Outcomes and performance criteria

Outcome 1

Describe information systems used in the road transport and logistics industry.

Performance criteria

1.1 Information systems are described in terms of their use of technology in the road transport and logistics industry.

Range information systems include – track and trace, quality assurance, product control, inventory management, in-vehicle communications, order processing, border control and security; technology includes – electronic mail, electronic data interchange, Internet, virtual marketplace, e-commerce, Global Positioning System (GPS), mobile or cellular technology, networks.

Outcome 2

Investigate new and emerging technology applicable to the road transport and logistics industry.

Performance criteria

2.1 Training and/or information sessions are attended and/or research undertaken to gain a full understanding of the technology. The nature of the technology is established, and sources of information are recorded.

Range three technological developments, including one new and one emerging technology.

Outcome 3

Evaluate the need to deploy new technology and explain the associated impacts.

Range evaluation includes – a minimum of three technologies and identification of the most suitable option.

Performance criteria

3.1 The technology is evaluated to determine the importance and value to the company.

Range may include – customer requirements, company expansion, replacement of existing technology, meeting legislative requirements, financial.

3.2 Costs and benefits are evaluated and expressed in terms of impact.

3.3 Impact and risks in terms of adopting the technology are explained.

Range may include – existing processes, company policy, addition/changes to vehicles and/or equipment, work sequence, health and safety practices, administration and/or documentation, workflow and productivity, staff training.

| | |
|----------------------------|------------------|
| Planned review date | 31 December 2029 |
|----------------------------|------------------|

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|---------------|---------|---------------|--------------------------|
| Registration | 1 | 25 June 2007 | 31 December 2017 |
| Review | 2 | 16 April 2015 | 31 December 2019 |
| Review | 3 | 25 July 2019 | 31 December 2019 |
| Reinstatement | 4 | 29 April 2021 | 31 December 2027 |
| Review | 5 | 25 July 2024 | N/A |

| | |
|--|------|
| Consent and Moderation Requirements (CMR) reference | 0014 |
|--|------|

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

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.