

41352**Use data and information to inform decision-making and derive value for asset management**

Kaupae Level	6
Whiwhinga Credit	10
Whāinga Purpose	This skill standard is for people intending to work in the asset management industry. People with this skill standard will have the skills to use data and information to inform decision-making and derive value from the asset and asset management system. This skill standard aligns with the New Zealand Diploma in Infrastructure Asset Management (Level 6) [Ref: 3180].

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Use data and information for an asset management activity to inform decision-making.	a. Data and information for an activity are extracted and collated from the AMIS and any other relevant sources.
	b. Data and information are analysed for quality, and anomalies are identified to inform conclusions about the reliability of the data for decision-making.
2. Use data and information to derive value from the asset and asset management system.	a. A statistical analysis process is used to analyse data and information to report on statistical measures and communicate to stakeholders.
	b. Communication methods appropriate for the audience are selected.
	c. Trends or patterns and their implications are identified from the statistical analysis.
	d. Recommendations to derive value from the asset including process improvements are identified and used to update the AMIS.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria***Assessment specifications:***

Assessment against this skill standard must acknowledge and respect Te Tiriti o Waitangi – The Treaty of Waitangi, Te Ao Māori mātauranga principles, and cultural variations in communication within this context. This includes differences in reo, dialect, mātauranga, tikanga among different iwi, hapū, rohe.

Evidence provided for assessment against this skill standard must be collected in line with legislative requirements and industry standards.

The asset management activity for assessment of this skill standard should be where informed decision-making can derive value from improved efficiencies.

Definitions:

Assets refer to stationary systems or networks intended to be maintained indefinitely for defined communities through continuous replacement and refurbishment of their components.

Asset management information system (AMIS) refers to a combination of data, processes, software systems and technology platforms used to enable and support asset management.

Data refers to quantitative facts from AMIS or performance systems e.g. rainfall, met service, NZ Statistics or any other relevant data.

Information is contextual or qualitative material derived from data.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content**Data analysis**

- Asset management information systems and strategy, including data, workflow process, technology landscape, governance information, improvements register, industry practice.
- Data quality, validity, reliability, compliance with legislation, industry and NZ standards, data sovereignty, ngā mātauranga values.

Adding value

- Statistical analysis of data and types of dashboards, charts, tables and data presentation tools.
- Using statistical methods to identify trends and extrapolate future performance.
- Using data to derive value from the asset, asset management system, and AMIS for the intended community benefits.

Rauemi | Resources

- Asset Management Programme Guidance, available from qualifications@energyinfra-skill.nz.

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Energy and Infrastructure Industry Skills Board
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Engineering and Technology > Infrastructure Civil Engineering > Infrastructure Asset Management
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	30 July 2026	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2031		

Please contact Energy and Infrastructure Industry Skills Board at qualifications@energyinfra-skill.nz to suggest changes to the content of this skill standard.