

41354

Analyse data and information to develop intervention options for an asset or work programme

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 analyse and interpret current data and information to develop intervention options for an asset or work programme. 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. Analyse and interpret current data and information for an asset or work programme.	a. Current and relevant data and historical and forecasted information related to the need for an asset or work programme intervention are collated for analysis and interpretation.
	b. Collated data, information and feedback are analysed and interpreted to develop options for the intervention.
2. Develop intervention options for an asset or work programme.	a. A range of viable options including any potential non-asset solutions are developed for the intervention.
	b. Options are supported by data and information verified by relevant stakeholders and cross-functional teams.
	c. Risk, constraints, financial costs, and demand drivers are included for each option.
	d. Impacts on the lifecycle of the asset are included for each option.

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.

Definitions:

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

Data refers to quantitative facts from asset management information system (AMIS) or performance systems e.g. rainfall, MetService, NZ Statistics or any other relevant data.

Demand drivers depend on the context, for example, leisure trends for parks and recreation, economy fluctuations, embracing sustainable practices, rainfall patterns for stormwater, commuter behaviour for transport, renewable energy adoption.

Information is contextual or qualitative material derived from data.

Non-asset solutions may refer to reducing customer demand for a service, reducing the level of service, or customer education initiatives.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

Data and information for interventions

- Collating historical data and information, current asset intervention levels, performance levels, factors that determine the significance of the asset, intervention levels.
- Analysing and interpreting data, information, and current intervention levels, demand analysis, current and future demand.

Optioneering

- Potential options for the intervention (do nothing, do the minimum, maintain, rehabilitate, replace, upgrade, renew, replace, non-asset solution/s), programme optimisation, intergenerational equity (principles and factors), levels of service options.
- Option viability and facilitating timely interventions, real-time monitoring, sensors and internet-enabled devices, real-time tracking of asset use, maintenance and renewal interventions.
- Risks and constraints for each option (trade-offs, service interruptions, continuity of service, renewal frequency), constraints (funding standardisation, consistency, stakeholder feedback), demand drivers, factors influencing demand, demand forecast.
- Impact of an intervention on the lifestyle of an asset.

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.