

41355 Prepare, test, and prioritise intervention options for asset management

Kaupae Level	6
Whiwhinga Credit	15
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 prepare, test, and prioritise intervention options to recommend a course of action for asset management. 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. Prepare intervention options.	a. Intervention options are generated and outcomes are identified and quantified including what has changed, any risks, and lifecycle costs.
	b. Intervention options are analysed for inclusion of safety and operational outcomes.
	c. Benefits and constraints of each option are identified from the analysis and presented in line with organisational requirements.
2. Test and prioritise the intervention options.	a. The feasibility of each intervention option is tested in terms of affordability, constraints, and risk.
	b. Intervention options are prioritised using a pre-defined set of criteria.
	c. The technique used to identify the best option is identified and based on the availability of the resources and the outcomes each intervention option provides.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Recommend a course of action for the chosen intervention option.	a. Outputs from modelling and evaluation for the chosen option are documented to inform investment recommendations or business cases.
	b. Approval processes are actioned and are in line with organisational requirements.
	c. A recommended course of action is developed in consultation with stakeholders and relevant cross-functional teams.

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.

It is highly recommended skill standard 41354 *Analyse data and information to develop intervention options for an asset or work programme* is completed, or equivalent skills and knowledge are demonstrated, prior to the completion of this skill standard.

Definitions:

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.

Organisational requirements refer to strategies, policies, procedures, and requirements of the organisation.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

Prepare intervention options

- Considerations for option selection, evaluating current value-for-money, cost deviations, needs assessment data, performance, and demand drivers, maintenance and renewal activities, deal breakers.
- Analysing intervention options taking a holistic, life-cycle approach to ensure optimal performance, cost-efficiency, and risk mitigation.
- Benefits and constraints of intervention options, balancing risk reduction against budgetary and operational constraints.

Test and prioritise options for an intervention

- Testing options, cost benefit analysis (CBA), risk, sustainable development, supply and demand, shortlisting and sifting.
- Decision making methods, net present value (NPV), multi-criteria analysis (MCA), cost effective analysis (CEA), prioritisation and optimisation.
- Conducting options analysis to offer a range of potential solutions or project scenarios.

Recommend a course of action

- Modelling and evaluating outcomes, investment for financial return or future opportunities, predictive renewal modelling, scenario modelling, building information modelling (BIM), and modelling outcomes.
- Course of action to address service levels, social licence, social return on investment, investment decision-making, better business case and five case models (strategic, economic, commercial, financial, management), non-compliance or areas for improvement.

Rauemi | Resources

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

Pārongo Whakaū Kounga | 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.