

40582 Deliver structural detailing for a construction project

Kaupae Level	5
Whiwhinga Credit	30
Whāinga Purpose	This skill standard is for people intending to complete qualifications and credentials in structural detailing. This skill standard recognises the skills required to deliver structural detailing for a construction project. This skill standard aligns with the New Zealand Diploma in Detailing (Structural) (Level 5) with strands in Light Steel Frame, Reinforcing Steel, Structural Steel, and Precast Concrete [Ref: 4515].

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Apply technical practices to deliver the structural detailing for a construction project.	a. Technical practices are applied according to industry standards and project requirements.
	b. Appropriate technology is used to optimise detailing processes and achieve project timelines.
	c. Resources are managed to ensure timely completion of detailing tasks.
	d. Accurate documentation of detailing processes, revisions, and approvals is maintained.
2. Comply with the relevant regulations to deliver structural detailing for a construction project.	a. Structural detailing processes are carried out to meet compliance with regulatory requirements, and project specifications.
3. Apply quality processes to deliver structural detailing for a construction project.	a. Quality processes are carried out according to organisation Quality Management System and project contract requirements.

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

Assessment specifications:

The scope of performance for this standard is limited to what would be expected to deliver structural detailing for a construction project. The construction project will have the following characteristics:

- Range of resources – involves a limited range of resources for example people, data and information, natural, financial and physical resources and/or appropriate technologies.

- Level of interactions – requires the best possible resolution of interactions between limited technical, non-technical, and project issues.
- Familiarity – requires application of practical procedures and practices for known operations and processes.

Ideally, evidence for assessment against this standard will be derived from detailing contributions to a single construction project.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Detailing and structural detailing project components

- Structural detailing: Reinforced concrete, steel framing, load-bearing walls, connections, and foundation details.
- Specifications and materials.
- Assembly and fabrication instructions.
- Co-ordination of trades.
- Compliance with Codes and Standards
 - Local building codes, safety regulations, and industry standards.
- Integration with 3D/BIM Models
 - Building Information Modelling (BIM) or 3D CAD software.
- Visualization, clash detection, and integration of various systems.
- Revisions and approvals.
- Checking process
 - Inputs
 - Outputs.
- Quality management system.
- Checking and approval processes.
- Contract quality requirements
 - Controls.

Rauemi | Resources

Programme guidance available from qualifications@waihangaararau.nz.

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Construction > Core Planning and Construction
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	25 September 2025	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2030		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz to suggest changes to the content of this skill standard.