

## 40565 Construct a retaining wall as a BCATS project

<b>Kaupae   Level</b>	2
<b>Whiwhinga   Credit</b>	4
<b>Whāinga   Purpose</b>	<p>This skill standard is for people intending to develop basic skills and knowledge relevant to various building, construction, and allied trades contexts.</p> <p>This skill standard recognises the skills to construct a retaining wall as a project for building, construction, and allied trades.</p> <p>This skill standard may align with the New Zealand Certificate in Building, Construction, and Allied Trades Skills (Level 2) [Ref: 3844].</p>

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

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
1. Construct a retaining wall as a BCATS project.	a. Retaining wall materials are identified, and a materials list is prepared according to BCATS project documentation.
	b. Terrain is excavated and foundations are set out for retaining wall construction to meet documentation requirements.
	c. Retaining wall is constructed to meet documentation requirements.
	a. Retaining wall is finished to meet documentation requirements.

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

#### Assessment specifications:

Candidates are required to complete a retaining wall with a height of between 350 millimetres and 1 metre, and a total perimeter length of not less than 2.4 metres. The retaining wall may be a section of a larger group project.

It is expected that:

- candidates are required to apply industry entry-level skills, using a range of techniques and tools.
- the terrain allows for candidates to excavate post holes using hand tools.
- documentation for the project is provided to candidates.
- minor blemishes in the project do not affect functionality.

*Finish* refers to the documented final project expectations and may include smooth edges and corners, alignment and spacing of components, holding ability and aesthetics.

**Ngā momo whiwhinga | Grades available**

Achieved / Merit / Excellence.

<b>Paetae   Achieved</b>	<b>Kaiaka   Merit</b>	<b>Kairangi   Excellence</b>
Construct a retaining wall as a BCATS project.	Efficiently construct a retaining wall as a BCATS project.	Skilfully construct a retaining wall as a BCATS project.

*Kaiaka/Merit: Efficiently* refers to efficient use of construction techniques and overall attention to detail, resulting in a well-executed retaining wall.

*Kairangi/Excellence: Skilfully* refers to the use of precise construction techniques resulting in a consistent, durable and visually aesthetic retaining wall.

**Ihirangi waitohu | Indicative content**

- Examples of appropriate settings for retaining walls.
- Appropriate materials for construction of retaining walls.
- Basic terminology and calculations to help with the materials list.
- Tools required to build the retaining wall.
- Setting up and maintaining a safe worksite.
- Depth of retaining wall foundations.
- Common causes of retaining walls failing.
- Finishing processes.
- Reflection on the success or failure of the project.
- Quality control checks.

**Rauemi | Resources**

BCATS Programme Guidance, available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

**Pārongo Whakaū Kounga | Quality assurance information**

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

Hātepe   Process	Putanga   Version	Rā whakaputa   Review Date	Rā whakamutunga mō te aromatawai   Last date for assessment
Rēhitatanga   Registration	1	29 May 2025	N/A
Kōrero whakakapinga   Replacement information	This skill standard replaced unit standard 12939.		
Rā arotake   Planned review date	31 December 2030		

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