

40058 Use mapping systems in a forestry operation

Kaupae Level	2
Whiwhinga Credit	3
Whāinga Purpose	<p>Ākonga/learners credited with this standard will have introductory knowledge and skills of mapping and technological resources in the forestry sector.</p> <p>This skill standard is for ākonga/learners who want to gain and apply introductory skills and knowledge in mapping and technology in the forestry industry.</p> <p>This skill standard has been developed to align with the New Zealand Certificate in Forest Industry Foundation Skills (Level 2) with strands in Harvesting, Silviculture and Earthworks [Ref: 4918].</p>
Whakaakoranga me mātua oti Pre-requisites	Unit standard 17769 <i>Demonstrate knowledge of general health, safety, and environmental requirements in forestry</i> .

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Use mapping systems in a forestry operation	a. Identify key features of the forestry environment on a map.
	b. Select and use appropriate maps and technology resources to complete a navigation task.
	c. Explain how technological resources assist workers to complete their tasks safely in a forestry operation.

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

Assessment specifications:

The requirements of this standard are consistent with the New Zealand Certificate in Forest Industry Foundation Skills (Level 2) with strands in Harvesting, Silviculture and Earthworks [Ref: 4918].

This skill standard may be assessed in a forestry workplace or using scenarios that realistically reproduce the conditions of a forestry workplace.

Ākonga/Learners may use topographical, aerial, and/or prescription maps.

Assessment criteria are carried out in accordance with workplace health and safety requirements, and assessment evidence must reflect industry standards.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content**Mapping Systems**

- Types of maps e.g. topographical, aerial, LiDAR (Light Detection and Ranging), road, satellite imagery, soil, vegetation, stand.
- Map features e.g. ridges, gullies, streams, roads, landings, power lines, water points, historical sites, wāhi tapu (sacred sites).
- Uses of maps e.g. management decision making, planning, environmental considerations, operational uses.

Technological resources

- Technological resources e.g. drones and UAVs (Unmanned Aerial Vehicles), mechanical planting, mechanical harvesting, use of phones/apps.

Rauemi | Resources

- Health and Safety at Work Act 2015.
- Heritage New Zealand Pouhere Taonga Act 2014.
- Resource Management Act 1991.
- Resource Management (National Environmental Standards for Plantation.
- Forestry) Amendment Regulations 2018.
- New Zealand Forest Owners Association, Forest Practice Guides (2019), and any subsequent amendments, available from www.nzfoa.org.nz.
- Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from www.worksafe.govt.nz.
- Safetree wellbeing and safety resources and initiatives for the plantation forestry industry, available from www.safetree.nz/.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Muka Tangata – People Food and Fibre Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Agriculture, Forestry and Fisheries > Forestry > Forest Foundation Skills
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0173

Hātepe Process	Putanga Version	Rā whakaputa Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	30 May 2024	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2029		

Please contact Muka Tangata at qualifications@mukatangata.nz to suggest changes to the content of this skill standard.