

**40054****Perform silviculture tasks for a forestry operation**

<b>Kaupae   Level</b>	2
<b>Whiwhinga   Credit</b>	5
<b>Whāinga   Purpose</b>	<p>Ākonga/learners credited with this standard will have introductory knowledge and skills in forest establishment and silviculture operations and can perform a forest establishment and silviculture task under supervision.</p> <p>This standard is for ākonga/learners who want to gain and apply introductory skills and knowledge in the silviculture forestry industry.</p> <p>This 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>

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

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Perform an establishment task.	a. Select and prepare for an establishment task under supervision.
	b. Perform an establishment task under supervision.
	c. Explain decision making relevant to the selected establishment task under supervision.
2. Perform a silviculture task.	a. Select and prepare a silviculture task under supervision.
	b. Perform a silviculture task under supervision.
	c. Explain decision making relevant to the selected silviculture task under supervision.

**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].

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

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

Establishment and silviculture tasks can be scenario and/or simulation based, selected and performed under supervision.

**Ngā momo whiwhinga | Grades available**

Achieved.

**Ihirangi waitohu | Indicative content****Safety and risk management**

- Safety procedures e.g. adherence to safety protocols specific to the forestry industry.
- Hazard identification and mitigation e.g. recognizing and mitigating potential dangers associated with silviculture operations.

**Equipment and machinery operations**

- Operation of silviculture equipment e.g. hand tools.
- Equipment maintenance e.g. basic maintenance of hand tools.

**Environmental and sustainable practices**

- Environmental awareness e.g. identifying and mitigating environmental impacts.
- Sustainable forestry practices e.g. promoting responsible resource management and sustainability in the forestry industry.

**Communication and teamwork**

- Effective communication e.g. communication with team members and supervisors to ensure efficient workflow.
- Team coordination e.g. collaborating with colleagues for safe and productive silviculture operations.

**Silviculture Tasks**

- Factors affecting tree growth e.g. tree selection, pruning, thinning, establishment (releasing, fertilising, planting, site preparation).
- Site preparation e.g. clearing undergrowth, identifying riparian zones, mechanised equipment used in operations.
- Planting plantation trees e.g. stacking techniques, storage methods, transport methods, planting technique, hazards.
- Agrichemical use e.g. handling, first aid, disposal, application, hazards.
- Releasing plantation trees e.g. methods, manual, motor manual, chemical.
- Fertilising plantation trees e.g. methods, environmental risks, hazards.
- Pruning plantation trees e.g. methods, lifts, pruning techniques, consequences, hazards.
- Thinning plantation trees e.g. methods, thinning techniques, consequences, hazards.

**Rauemi | Resources**

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

**Pārongo Whakaū Kouna | Quality assurance information**

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

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

Please contact Muka Tangata at [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) to suggest changes to the content of this skill standard.