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| <b>Title</b> | <b>Demonstrate knowledge of general health, safety, and environmental requirements in forestry</b> |                |          |
| <b>Level</b> | <b>2</b>   | <b>Credits</b> | <b>5</b> |

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| <b>Purpose</b> | <p>This unit standard is intended for people employed in a forestry operation.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: the role of health and safety in forestry operations; general safety requirements in a forestry operation; emergency procedures and related requirements to be used in the event of a forest emergency; environmental issues in forestry; and personal safety in first line firefighting.</p> |
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| <b>Classification</b> | Forestry > Forest Foundation Skills |
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| <b>Available grade</b> | Achieved |
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### Guidance Information

- 1 People seeking to enter the forest industry may elect to complete this unit standard through a training provider.
- 2 Legislation relevant to this unit standard includes the Health and Safety at Work (HSW) Act 2015; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and any subsequent amendments.
- 3 **References**  
 Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <https://worksafe.govt.nz/>.  
 New Zealand Forest Owners Association, Forest Practice Guides (2019), and any subsequent amendments, available from <https://www.nzfoa.org.nz> (NB – these guidelines support the NES-PF and have replaced the New Zealand Environmental Code of Practice for Plantation Forestry referenced in the unit, which is now out of date).
- 4 **Definitions**  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.  
*Forestry operations* include forest establishment, silviculture, harvesting, forest inventory, and forest and crew management.  
*Near hit* means an accident or incident that had the potential to cause harm.  
*PCBU* – refers to a person conducting a business or undertaking, as defined in the Health and Safety at Work Act 2015.

*PPE* – personal protective equipment as required for the task in accordance with accepted industry practice and worksite procedures. This may include but is not limited to high-visibility clothing, protective clothing, gloves, face and eye protection, safety helmet, approved footwear, chaps, hearing protection, and safety devices. *Worksite procedures* refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the role of health and safety in forestry operations.

#### Performance criteria

- 1.1 The objectives of the HSW Act 2015 are explained in accordance with accepted industry practice.
- 1.2 The purpose of the Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, and related rules and guidelines, is described.
- 1.3 The onsite location of the ACOP document, and site-specific rules and guidelines, is identified.
- 1.4 Duties defined by the HSW Act 2015 are described.
- Range officer, worker, PCBU, health and safety representative, worker engagement.
- 1.5 Examples of penalties for infringements under the HSW Act 2015 and to whom they may apply are identified.
- Range may include but is not limited to fines and prison sentences for workers, supervisors, contractors, company directors; four different examples are required.

### Outcome 2

Demonstrate knowledge of general safety requirements in a forestry operation.

#### Performance criteria

- 2.1 Terminology relevant to health and safety and risk management is defined in accordance with the HSW Act 2015.
- Range hazard, risk, notifiable event, hierarchy of control measures, reasonably practicable.

- 2.2 Reasons for using and maintaining PPE equipment, and for having the correct PPE for the task, are explained in accordance with accepted industry practice.
- 2.3 Methods of communicating safety and other information in a forestry operation are described in accordance with worksite procedures.
- Range may include but is not limited to – signage, health and safety notice board, verbal instructions.
- 2.4 The method that the candidate must use to draw attention to themselves when entering an area where work is taking place, is identified and described in accordance with worksite procedures.
- 2.5 Forestry signage is identified, and the meaning of the signage is explained in the context of the candidate’s worksite and access to the worksite.
- 2.6 The use of banners, tapes and barriers is explained in accordance with worksite policies and procedures.
- 2.7 The reasons for and process of reporting and recording incidents, near hits, and hazards is explained in accordance with workplace procedures and accepted industry practice.

### Outcome 3

Demonstrate knowledge of emergency procedures and related requirements to be used in the event of a forest emergency.

#### Performance criteria

- 3.1 Emergency procedures are described in accordance with worksite procedures, and in the context of the candidate’s role.
- Range may include but is not limited to – injury, fire, explosion, natural events;  
evidence of at least two procedures is required.
- 3.2 Action to be taken when first on the scene of a fire, accident, or medical emergency is described in accordance with worksite procedures.
- Range includes but is not limited to – securing the scene, communication procedures, first aid.
- 3.3 Use of communications technology during an emergency is demonstrated in accordance with worksite procedures.
- Range includes but is not limited to – radio, mobile phone, emergency personal locator beacon.
- 3.4 Availability of a vehicle for use as a means of obtaining assistance in an emergency is explained in accordance with worksite procedures.

- 3.5 Emergency signals are described in accordance with worksite procedures.
- Range hand signals, audio signals (including radio communications).
- 3.6 Essential information to be communicated in the event of an emergency is identified in accordance with accepted industry practice.
- Range evidence of five pieces of essential information and to whom they must be communicated.
- 3.7 The requirement for all recipients to repeat and confirm emergency messages is explained in accordance with accepted industry practice.

#### **Outcome 4**

Demonstrate knowledge of environmental issues in forestry.

##### **Performance criteria**

- 4.1 Potential risks to the environment that may arise from the forestry operation the candidate is working in are described.
- 4.2 Controls that can be put in place to manage potential risks to the environment that may arise from the forestry operation the candidate is working in are described.
- 4.3 Consequences of failing to meet environmental requirements are identified in terms of consequences to the employer and to the employee.
- Range evidence of two consequences for the employer and two consequences for the employee.

#### **Outcome 5**

Demonstrate knowledge of personal safety in first line firefighting.

##### **Performance criteria**

- 5.1 Causes of fire in forestry operations are explained.
- Range chainsaws, machinery, machinery maintenance, vehicles, smoking, open flame, wire rope friction; evidence of three causes of vegetation fire is required.
- 5.2 Factors that affect fire behaviour are explained in accordance with accepted industry practice.
- 5.3 Actions to be taken when a fire is observed are described in terms of accepted industry practice and worksite procedures.
- 5.4 The minimum clothing requirements to be worn at a vegetation fire are identified in accordance with accepted industry practice.

- 5.5 The type of clothing material that must not be worn at a vegetation fire is stated in accordance with accepted industry practice.

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| <b>Planned review date</b> | 31 December 2024 |
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#### Status information and last date for assessment for superseded versions

| Process      | Version | Date             | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1       | 5 December 2000  | 31 December 2012         |
| Review       | 2       | 22 May 2008      | 31 December 2012         |
| Revision     | 3       | 16 July 2010     | 31 December 2016         |
| Review       | 4       | 19 March 2015    | 31 December 2017         |
| Review       | 5       | 10 December 2015 | N/A                      |
| Review       | 6       | 27 February 2020 | N/A                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 0173 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Comments on this unit standard

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.