



Australian Government

Assessment Requirements for FWPSIL3001 Apply sustainable silviculture treatments

Release: 1

Assessment Requirements for FWPSIL3001 Apply sustainable silviculture treatments

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has assessed tree condition and selected, applied, monitored and reported on the use of one silviculture treatment in one sample plot in one of the following types of forested areas:

- plantation
- native forest.

In undertaking this activity, the individual has:

- assessed tree condition in one sample plot
- selected and applied one of the following sustainable silviculture treatments in the sample plot to meet production and environmental requirements:
 - slash or harvesting residue burning
 - scarification
 - enhancement planting or supplementary planting
 - fertilisation
 - thinning
 - pruning
 - waste thinning and non-commercial thinning
 - commercial thinning
 - harvesting
 - gapping
- monitored the implementation of the selected sustainable silviculture treatment
- reported on the effectiveness of the selected sustainable silviculture treatment.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles of sustainable forestry:
 - conservation of biological diversity
 - maintenance of productive capacity of forest ecosystems
 - maintenance of ecosystem health and vitality
 - conservation and maintenance of soil and water resources
 - maintenance of forest contribution to global carbon cycles
 - maintenance and enhancement of long-term multiple socioeconomic benefits
 - legal, institutional and economic framework for forest conservation and sustainable management
- legislative and regulatory requirements relevant to silviculture operations in plantation and native forest settings
- environmental protection requirements relevant to silviculture operations
- sustainable silviculture treatments:
 - slash or harvesting residue burning
 - scarification
 - enhancement planting or supplementary planting
 - fertilisation
 - thinning
 - pruning
 - waste thinning and non-commercial thinning
 - commercial thinning
 - harvesting
 - gapping
- growth habits of specific species under varying soil and environmental conditions
- tree retention
- stocking criteria
- regeneration requirements of different plantation and native tree species
- soil conservation and erosion mitigation techniques and their advantages and disadvantages for specific sites and habitats
- changes in forest or plantation conditions that may require adjustments to silviculture work practices to protect environment:
 - recently declared or potentially rare and endangered species identified
 - unexpected flora or fauna encountered
 - new or potential habitat
 - ecology or ecosystem changes
 - undergrowth and ground cover
 - canopy

- environmental features
- operational conditions
- ground conditions
- weather conditions
- wind
- dust
- smoke
- fire
- cultural sensitivity
- forest type
- land tenure
- quality of roads and tracks
- neighbouring stakeholders
- effective communication procedures and protocols
- procedures for recording and reporting workplace activity.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest or wood products work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - native forest or plantation
 - materials and equipment required for applying different silviculture treatments
 - personal protective equipment
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to the use of sustainable silviculture treatments
 - workplace procedures for sustainable silviculture treatments.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>