



Australian Government

Assessment Requirements for FWPSIL4001 Plan for and coordinate forest site preparation operations

Release: 1

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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 planned, coordinated and monitored one site preparation operation in one of the following types of forested areas:

- native forest
- plantation.

In undertaking this activity, the individual has:

- reviewed the site preparation plan and confirmed the site location, preparation requirements, local authority coverage, forest establishment boundaries, forest design plan, fire prevention and site environmental protection measures
- confirmed site characteristics, site preparation methods and personnel, equipment and materials requirements
- determined the cost of site preparation operations
- coordinated and monitored site preparation activities
- reviewed sampling data and reported on site preparation operations according to workplace procedures.

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:

- soil profile:
 - vegetation
 - humus
 - mineral soil
- purpose of site preparation:
 - quick development of the root system (good establishment)

- high survival
- good growth
- ways in which site preparation improves growing conditions:
 - temperature in root zone increased
 - available oxygen in soil increased
 - risk of frost damage decreased
 - moisture problems can be overcome
 - competing vegetation reduced
 - nutrient availability increased
 - risk of insect attack decreased
 - planting can be easier
- consequences of use of incorrect site preparation methods
- environmental impact of site preparation:
 - soil compaction and displacement
 - sedimentation of waterways
 - habitat loss
- characteristics of sites not suitable for mechanised site preparation:
 - dry nutrient-poor soils
 - naturally regenerated sites
 - small wet pockets
- procedure for site preparation planning, including determination of cost of site preparation operations
- equipment and site preparation methods:
 - mounding
 - scaling
 - scarification
 - disc trenching
 - shearing
 - piling
 - bedding
 - ploughing
 - raking
 - ripping
 - drum chopping
 - disking
 - scalping
 - mulching
- criteria for choosing site preparation method
- methods for matching the site preparation method to the actual site, taking into account:
 - soil texture

- slash and obstacles
- humus layer
- slope
- treatment patterns:
 - concentric pattern
 - back and forth pattern
- monitoring site preparation:
 - sampling methods used for different soil preparation methods
 - remediation treatments.

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 work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a site preparation plan
 - a section of native forest or plantation where site preparation operations are to be implemented
 - required equipment and materials for planned site preparation operations
 - personnel to undertake forest site preparation operations
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to forestry operations
 - workplace policies and procedures relevant to forest site preparation activities.

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>