



Australian Government

Assessment Requirements for FWPCOT3350 Fell trees manually (intermediate)

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 9.0.

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 conducted a complete hazards and risks assessment of site, surroundings, and trees, planned risk control measures, selected appropriate cutting techniques, and conducted the felling of a minimum of four trees with intermediate characteristics.

The trees must be chosen according to the following criteria:

- at least one tree must have a diameter, measured at the point where the scarf cut is made, that is smaller than chainsaw bar length
- at least one tree must have a diameter, measured at the point where the scarf cut is made, that exceeds chainsaw bar length
- at least one tree must have a leaning characteristic and a diameter, measured at the point where the scarf cut is made, that is smaller than chainsaw bar length
- at least one tree must have a leaning characteristic and a diameter, measured at the point where the scarf cut is made, that exceeds chainsaw bar length.

In performing this task, the individual has used a chainsaw with a bar length appropriate to the tree's diameter and has applied:

- two different scarf cutting techniques
- two different back cutting techniques, which must be for either forward leaning, side leaning or back leaning trees
- the wedge technique, on one occasion, to ensure that the tree falls in the direction of the scarf cut.

The scarfing methods must be selected from the following:

- Standard
- Humboldt
- 90 degree scarf
- V scarf.

In performing all cuts, the individual must have complied with the following criteria:

- direction – the scarf must be in the direction of the desired fell
- depth – the depth of the scarf is $\frac{1}{4}$ to $\frac{1}{3}$ of the diameter of the tree
- size (width) of opening – $\frac{2}{3}$ across the front of the tree
- top and bottom scarf cuts – the two cuts should meet without overcutting or undercutting, the scarf line is level and the scarf line is at 90 degrees to the intended direction of fall
- back cut height – the back cut is level and above the scarf line by about $\frac{1}{10}$ (or 10%) of the tree diameter
- hinge wood thickness is about $\frac{1}{10}$ (or 10%) of the tree diameter.

There must also be evidence that the individual has documented risk assessment for at least one of the felled trees. This documentation must detail localised hazards and risks associated with tree felling and specify methods to minimise these risks.

In addition, there must be evidence that the individual has conducted risk assessment for a minimum of two trees, in addition to the initial four.

In completing this work, the individual must demonstrate correct use of personal protective equipment and that, for each tree, the felling technique was consistent with current Australian Standards and industry codes of practice applicable to tree felling operations.

There must also be evidence that the individual has sharpened one chain, inspected and carried out routine maintenance on one occasion on one chainsaw and its cutting attachments according to manufacturer requirements.

This work must comply with workplace policy and procedures and current workplace health and safety legislation and regulations.

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:

- Australian Standards and codes of practice applicable to tree felling operations
- hazards and risks related to felling trees with chainsaws, and methods to minimise associated risks, including:
 - physical conditions of the site
 - unsafe/hazardous trees
 - fire and other emergency situations
 - overhead and underground services
 - nearby structures
 - standing vegetation in the intended direction of fall
 - falling branches
 - weather conditions
 - impediments of escape routes
 - vehicle and traffic access
 - people on or near worksite
 - machinery on or near worksite

- carrying and transporting a chainsaw
- user fatigue
- hazards related to maintaining chainsaws, and methods to minimise associated risks
- features of unsafe/hazardous intermediate trees and defects of trees and how they affect tree felling activities
- types and purposes of cuts to fell intermediate trees, including:
 - scarf cuts
 - back cuts using different methods to provide hinge wood and wedges to maintain control of tree
- characteristics of intermediate trees
- methods used to identify intermediate trees:
 - that contain hazards and are deemed unsafe to fell
 - that are considered outside own skill level
 - where cuts made may lead to loss of control of tree in felling
- methods used to remove trees that are hung up, and procedures for removal
- methods for assessing chain condition
- types, safe use, operation and maintenance of chainsaws, support tools and attachments
- workplace procedures specific to felling trees with chainsaws, including:
 - workplace health and safety, with particular emphasis on deactivating and isolating equipment, use of personal protective equipment (PPE), safe manual handling and fire prevention measures
 - communication reporting lines
 - recording and reporting repairs, maintenance activities and equipment faults
- environmental protection requirements and/or procedures that meet legal obligations and requirements of the industry, state and local standards and/or codes of practice for felling trees with chainsaws, including:
 - protection of natural and cultural assets
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing materials
 - disposing of hazardous substances.

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 the workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - chainsaw and accessories
 - suitable trees to fell
 - tools and equipment to fell trees

- PPE required in tree felling operations
- communication system
- specifications:
 - workplace health and safety and environmental policies and/or procedures applicable to tree felling and chainsaw operations
 - workplace standard operating procedures or operator manual for chainsaws.

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>