



Australian Government

Assessment Requirements for FWPFIR4001 Conduct tree hazard assessment post-fire

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

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 hazard assessment of five fire damaged or fire affected trees, which include two different species.

In performing each of these tasks, the individual has:

- complied with health and safety requirements, including use of personal protective equipment
- conducted a dynamic risk assessment of route to and areas around tree
- identified risks to self and others posed by tree according to workplace procedures
- identified ecological, cultural and economic value of tree
- assessed and determined treatment options for tree
- reported on assessment and treatment options for tree.

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:

- health and safety work procedures relevant to bushfire recovery operations
- workplace hazards and associated risks and controls in bushfire recovery operations, including those associated with fire affected and fire damaged trees
- tree species and effects of fire on different trees species
- hazards associated with fire affected and fire damaged trees
- factors influencing assessment of tree hazard risk and the values in retaining the tree, including:
 - structural characteristics of trees
 - likely timeframe in which the tree, limb or branch might be expected to fall
 - tree exposure to causal factors and external influences of tree hazard
 - quantity of trees to be assessed

- potential of tree to interact with other hazards or assets (e.g., power lines, buildings)
- operational context
- possible risk control measures that may be applied in context
- cultural, social or economic values associated with a tree or its immediate surroundings
- ecological values at the site
- external factors that increase potential tree hazard, including:
 - wind exposure
 - drought
 - stress and insect infestation
 - excessive drainage problems from land management operations
 - exposure to vibration from heavy plant or machinery
- other hazards at the site that increase potential tree hazard, including:
 - gas supplies
 - water supplies
 - powerlines (above and below ground)
 - adjacent buildings
 - features of adjacent trees
 - terrain features
- characteristics of hazardous trees, including:
 - dead and/or decaying tree and/or major branches
 - evidence of previous damage, including burn or mechanical processes
 - suspected loose or broken branches
 - evidence of longitudinal or torsion fractures
 - evidence of roots lifting or disturbed root system
 - significant lean with indicators of failure
 - cavities and hollows in the main trunk and root buttress area
- industry guidelines and agency approved policies and procedures for tree hazard management in bushfire recovery regarding:
 - tree hazard isolation
 - tree hazard marking and mapping symbols
 - tree hazard classes – clear and present danger tree (CPD), potential clear and present danger trees (potential CPD)
 - tree hazard treatment – removal of tree or removal of branch/limb, exclusion, communication of ongoing risk to relevant qualified personnel
- characteristics of culturally significant trees, including Aboriginal sacred trees, and workplace procedures for managing significant trees, including who to contact if a culturally significant tree is identified
- techniques for recording position of trees using Global Navigation Satellite System (GNSS)
- reporting procedures associated with tree hazards.

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 work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - fire damaged or fire affected trees
 - communications systems relevant to work activity
 - equipment and materials relevant to work activity
 - personal protective equipment relevant to work activity
 - GNSS
- specifications:
 - workplace health and safety and environmental protection policies and/or procedures relevant to work activity
 - workplace documentation for recording information relevant to work activity.

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>