



Australian Government

FWPHAR4208 Plan for and coordinate fire salvage operations

Release: 1

FWPHAR4208 Plan for and coordinate fire salvage operations

Modification History

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

Application

This unit of competency describes the skills and knowledge required to plan and coordinate a salvage operation to recover commercially viable trees, immediately after fire in a forest or farm forest setting, before degradation and/or insect infestation occurs.

The unit applies to individuals involved in planning and supervising fire salvage operations as part of forestry operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Harvesting and Haulage (HAR)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for salvage operations	1.1 Determine job requirements from work order or instruction and, where required, seek clarification from appropriate personnel 1.2 Confirm workplace health and safety procedures, including the use of personal protective equipment (PPE), lock-out procedures and safe manual handling techniques

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Confirm regulations, prescriptions and standards relevant to fire salvage operations 1.4 Identify, assess and take actions to mitigate risks and hazards associated with salvage operations 1.5 Identify workplace environmental protection procedures for protecting natural and cultural assets, minimising and disposing of waste material, and cleaning plant, tools and equipment 1.6 Identify emergency plan procedures to follow in the event of an emergency 1.7 Contact local authority and obtain salvage approval according to workplace procedures 1.8 Select appropriate equipment for work requirements and check for operational effectiveness according to manufacturer recommendations
2. Plan salvage operations	2.1 Determine location, land ownings and boundaries of salvage area 2.2 Assess site characteristics and environmental conditions according to workplace procedures 2.3 Plan site preparation, access and operational activities 2.4 Plan and coordinate implementation of environmental protection practices according to workplace procedures 2.5 Assess and report on extent of fire damage and suitability of trees for recovery 2.6 Estimate and report on commercial viability of tree harvest and extraction 2.7 Consult with key stakeholders, including local community and land owners, on proposed fire salvage operations 2.8 Produce salvage plan, and forward to appropriate personnel
3. Coordinate salvage operations	3.1 Communicate plans for clearing, trimming and felling operations to harvesting personnel 3.2 Direct preparation of access tracks according to salvage plan and workplace procedures 3.3 Direct and monitor clearing of burnt scrub and dangerous limbs according to salvage plan and workplace procedures 3.4 Monitor and control location and movement of personnel on work site according to workplace health and safety requirements and workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.5 Assess location and stability of trees for conditions likely to affect safety of felling activities 3.6 Direct felling of designated trees according to salvage plan and safety requirements 3.7 Monitor use of mechanical equipment according to safety and environmental requirements 3.8 Coordinate haulage of logs from site according to workplace procedures 3.9 Coordinate post-salvage landscape works to allow regeneration according to salvage plan and workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Read complex documents such as fire salvage procedures and salvage approval documents
Writing	Prepare detailed written reports on fire damage and commercial viability of tree harvest
Oral communication	Use open and closed questions and active listening to clarify work instructions
Numeracy	Estimate land areas and volume and quantity of trees

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR4208 Plan for and coordinate fire salvage	FWPHAR4204 Plan and coordinate fire salvage operations	Revised title Revised Elements and Performance Criteria	Equivalent

operations		Updated Foundation Skills Revised Performance Evidence and Knowledge Evidence Revised Assessment Conditions	
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Links

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

Assessment Requirements for FWPHAR4208 Plan for and coordinate fire salvage operations

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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 and coordinated one fire salvage operation.

In undertaking this activity, the individual has:

- produced a salvage plan
- confirmed workplace health and safety procedures, including the use of personal protective equipment (PPE), lock-out procedures and safe manual handling techniques
- confirmed regulations, prescriptions and standards relevant to fire salvage operations
- consulted with key stakeholders, including local community and land owners, on the proposed fire salvage operation
- coordinated the salvage operation
- coordinated haulage of logs from site according to workplace procedures
- coordinated post-salvage landscape works to allow regeneration according to salvage plan and 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:

- regulations, prescriptions and standards relevant to fire salvage operations environmental protection practices for forest and farm forest settings affected by fire:
 - safe disposal of waste material
 - cleaning of plant, tools and equipment
 - recycling and re-use of timber with defects
 - minimising the impact of mechanical equipment on the environment
 - leaving the site in a safe and tidy condition to allow for regeneration

- sustainable forest management, at a basic level of understanding, and the role of salvaging fire affected trees in the recovery of fire damaged forests
- key impacts of fire on a forest site, and effects on fire salvage operations:
 - characteristics of burnt trees
 - how fire has affected stability of trees
 - what fire has done to underlying scrub
 - how safe the forest is to enter
 - environmental hazards and risks to worker safety
- key processes in fire salvage operations:
 - planning and coordinating salvage operations
 - established chain of command for communication of information and instruction
 - methods to assess fire damaged trees
 - harvesting and extraction techniques for fire damaged trees
- types of equipment for trimming and felling fire damaged trees; their purpose, features and operation
- workplace standards, policies and procedures for the assessment, planning and coordination of fire salvage operations:
 - workplace health and safety specific to harvesting trees in fire damaged forests
 - environmental protection
 - recording and reporting on fire damage and commercial viability of tree harvest
 - documenting fire salvage plans.

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 forestry site for salvage operations
 - PPE, personnel, equipment and materials required for fire salvage operations
- specifications:
 - workplace policies and procedures on fire salvage operations
 - workplace safety and environmental policies and procedures applicable to fire salvage operations.

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

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