



Australian Government

FWPHAR4210 Plan for and coordinate log recovery (hook tender)

Release: 1

FWPHAR4210 Plan for and coordinate log recovery (hook tender)

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 coordinate operational planning and setting up of cable log recovery systems as part of forestry operations, including coordinating and supervising rigging slingers, yarders, choker setters and chasers.

The unit applies to individuals whose job role includes coordinating the operational planning and setting up of cable log recovery systems.

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 hook tender operations	1.1 Determine job requirements from work order or instruction, and where required seek clarification from appropriate personnel 1.2 Confirm safety and environmental requirements, including use of personal protective equipment, for the task according to workplace

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures 1.3 Identify, assess and take actions to mitigate risks and hazards associated with cable operation activities 1.4 Identify emergency and evacuation procedures to follow in the event of an incident or accident 1.5 Confirm chain of command for communication of information and instructions and consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Identify required type and quantity of cable recovery equipment, and assess for safety and operational effectiveness in line with manufacturer recommendations 1.7 Plan cable operation activities according to workplace procedures
2. Plan cable system layout	2.1 Obtain and evaluate information to plan cable system layout and inspect site for hazards and factors affecting harvesting operations 2.2 Provide personnel with information about landing location and size, hauling boundaries, access routes and construction requirements 2.3 Consider code of practice, site topography and minimising system design additions, and select cable system type to optimise log extraction rate 2.4 Identify general requirements for anchor points, backline and intermediate supports, and provide instruction to fallers
3. Coordinate yarder and cable system setup	3.1 Select rope sizes for lines according to code of practice, yarder capacity, system design and manufacturer recommendations 3.2 Select components and rigging to meet code of practice requirements, system design and manufacturer recommendations 3.3 Inspect and install components and lines 3.4 Direct and assist personnel to lay out lines, select anchors and position mobile backstops 3.5 Assess felled trees for location, size and obstructions 3.6 Plan recovery extraction sequence to minimise line shifts, log and environmental damage 3.7 Select support trees and provide directions for rigging 3.8 Check unloaded and loaded system performance, and calculate loads to ensure they are within system and equipment capacity 3.9 Monitor operations and change and communicate procedures or

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	system design to improve safety and payload efficiency
4. Coordinate rigging of towers, trees and yarders	4.1 Check cable system plans and determine operational requirements for tower and support trees 4.2 Ensure rigging of towers and trees complies with code of practice and manufacturer recommendations 4.3 Check and select support trees to be rigged, guylines and anchor points 4.4 Select rigging and rope sizes to meet load 4.5 Provide directions to check components for wear, failure or missing parts prior to rigging 4.6 Identify faults and take corrective action 4.7 Coordinate rigging on machine towers to prepare, assemble and fit operational lines, prior to raising according to system design 4.8 Identify climbing and pass line equipment 4.9 Coordinate guyline positioning and rigging within location angle requirements to provide minimal difference in length and tension 4.10 Check system components for size, safe working load, layout, position, safety straps, joins, lead angles and operating angles
5. Coordinate line shifts and rigging modifications	5.1 Anticipate line shifts and prepare required rigging in advance 5.2 Diagnose limitations of system design or positioning, and plan modifications according to code of practice and manufacturer recommendations 5.3 Monitor operations, and as required change and communicate procedures to improve safety and payload efficiency 5.4 Locate new support trees, anchor points and mobile tail anchor position 5.5 Assign riggers to prepare and rig according to system requirements 5.6 Record and report production processes and equipment faults according to 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 and comprehend familiar workplace documents, including workplace health and safety procedures and operational manuals
Writing	Complete workplace forms and reports on breakout process and equipment faults
Oral communication	- Ask questions and actively listen to clarify contents of work plans - Provide clear, unambiguous rigging instructions to site personnel
Numeracy	- Complete routine calculations to optimise log extraction rate for number and size of felled trees - Identify and interpret numerical requirements within codes of practice and manufacturer recommendations - Complete calculations involving height, length, weight, tension, angles and loads to determine efficient and safe operational capacity of rigging - Identify boundaries on maps and plans, and calculate spatial requirements for yarder and rigging operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR4210 Plan for and coordinate log recovery (hook tender)	FWPHAR4202 Coordinate log recovery (hook tender)	New title Updated Application Statement Minor revisions to Elements, Performance Criteria and Knowledge Evidence Simplified Performance Evidence Updated Assessment Conditions	Equivalent

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 FWPHAR4210 Plan for and coordinate log recovery (hook tender)

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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 coordinated the operational planning and setting up of one cable log recovery system.

In undertaking this activity, the individual has:

- planned and coordinated the establishment of one of the following cable recovery systems:
 - high lead (no skyline)
 - standing skyline
 - running skyline
- complied with safety and environmental requirements, including use of personal protective equipment (PPE)
- confirmed chain of command for communication of information and instructions and consulted with appropriate personnel to ensure that work is coordinated effectively with others in the workplace
- coordinated rigging of towers, trees and yarders according to workplace policies and procedures and related industry codes of practice for log recovery operations
- coordinated line shifts and rigging modifications according to workplace policies and procedures and related industry codes of practice for log recovery operations
- monitored operations and as required changed and communicated procedures to improve safety and payload efficiency
- recorded and reported production processes and equipment faults 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:

- content and application of applicable industry code of practice for log recovery activities

- key features of these varying environmental conditions and effects on the layout, setup and operation of cable systems for log recovery:
 - fallen trees
 - general forest lean
 - ground growth
 - ground hazards and obstacles
 - ground slope
 - density of trees
 - wet and adverse weather conditions
 - wind speed and direction
- environmental protection practices for cable logging operations:
 - safe disposal of waste material
 - cleaning of plant, tools and equipment
 - soil and water protection
- industry standard lengths for logs
- operational planning processes for:
 - designing and coordinating the establishment of cable recovery systems
 - determining the most time and cost effective cable system for log recovery
- techniques used in cable log recovery:
 - log extraction methods
 - rigging techniques
- typical industry chain of command for communication of information and instruction
- cable logging systems and rigging components
- system design additions:
 - blind leads
 - bridling
 - multispans
- yarders and anchors:
 - anchors
 - block stumps
 - mobile backstops
 - tailholds
- lines:
 - extensions
 - guylines
 - haulback lines
 - mainlines
 - skylines
 - strawlines
- towers and support trees

- workplace procedures specific to cable log recovery coordination:
 - workplace health and safety, with particular emphasis on use of equipment
 - communication reporting lines during setup and operation of cable systems for log recovery
 - recording and reporting production process and equipment faults.

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 an active cable logging operation or an environment that accurately reflects workplace conditions
- resources, equipment and materials:
 - coupe with logs for recovery
 - cable system and associated rigging equipment for log recovery yarder and anchors
 - PPE suitable for log recovery coordination
- relationships:
 - a team of rigging slingers, yarders, choker setters and chasers with whom the individual can interact
- specifications:
 - workplace safety and environmental policies and procedures applicable to cable logging operations
 - workplace procedures for cable logging operations.

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

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>