



Australian Government

FWPCOT3315 Transport forestry logs using trucks

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to drive log trucks to and from forest harvesting sites, facilitate log loading and unloading, and deliver logs to their destination.

The unit applies to individuals who transport logs by driving heavy log vehicles in a variety of work settings, including forest environments, landings, log dumps, sawmills, wood chip mills, veneer mills, and board/plywood mills.

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

Licensing requirements apply to this unit. Users are advised to check with the relevant regulatory authority.

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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 to transport logs	1.1 Determine job requirements from work order and schedules and, where required, seek clarification from appropriate personnel 1.2 Confirm safety and environmental protection requirements for the task according to workplace procedures and chain of

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	responsibility obligations 1.3 Identify, assess and take actions to mitigate risks and hazards associated with driving log trucks according to regulatory requirements and industry code of practice 1.4 Obtain coupe map to identify forest harvesting site, truck entry, access and exit tracks and loading areas 1.5 Determine required truck configuration to meet work order and loading and stability requirements, and confirm availability of truck and ancillary equipment or breach of requirements according to workplace procedures 1.6 Participate in audits of loads for compliance with regulatory requirements for driving hours, load limits and dimensions as required 1.7 Consult and maintain communication with team members and other appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.8 Select, fit and use personal protective equipment 1.9 Conduct pre-start-up checks, load restraint equipment and tag out and report any observed component wear or failure to the appropriate personnel for repair or replacement
2. Plan route	2.1 Select route and coupe entry and exits points to ensure efficient, safe and legal movement of logs, and compliance with environment protection procedures 2.2 Confirm selected route complies with height, width, overhang and load limits of road infrastructure and environmental constraints 2.3 Estimate time required to transport logs, and account for fatigue management guidelines 2.4 Confirm route, timing and coupe entry and exit points with appropriate personnel
3. Support log loading and load construction	3.1 Access site and determine safe manoeuvring approach for loading area with worksite personnel 3.2 Position truck in designated safe zone to avoid hazards and maximise load safety and security while loading 3.3 Communicate with loader, from a designated safe zone, to assist with the placement of the logs on the vehicle to achieve the required crowning angle

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.4 Communicate the remaining payload capacity and weight distribution with the loader from a designated safe zone 3.5 Check that maximum permissible axle masses and total combination mass are not exceeded 3.6 Check log placement for vertical containment before applying restraints 3.7 Monitor loading and remotely communicate, from a designated safe zone, to the loader any adjustments required to log positioning to prevent stanchion damage 3.8 Discuss any concerns about the positioning and/or size of the selected logs with the loader, and adjust if required
4. Secure logs prior to transport	4.1 Secure load with load restraint system for type and size of load according to industry guidelines, code of practice and transport regulatory requirements 4.2 Re-tension manual restraint equipment as required to ensure the pre-tension is maintained, particularly as the load settles 4.3 Use tensioning systems according to manufacturer recommendations 4.4 Clean the trailer, tyres and the exterior of the load, if loaded, to remove debris before driving 4.5 Fit overhang warning devices and signage to load to comply with transport regulatory requirements
5. Transport logs	5.1 Transport logs on planned or modified route, considering conditions, road surfaces and fatigue management practices 5.2 Monitor condition of tracks and roads, and report unexpected ground, water, vegetation and other environmental conditions to appropriate personnel 5.3 Drive truck legally and safely using primary and subsidiary controls appropriate to conditions 5.4 Monitor truck gauges and warning devices to detect and respond to operating faults and ensure operational safety 5.5 Communicate with other drivers and road users to inform location and potential hazards 5.6 Conduct periodic load safety checks and re-tension load according to road conditions, workplace procedures, industry code

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	of practice and regulatory requirements 5.7 Keep communication channels open to ensure location is known at all times to allow for emergency assistance
6. Facilitate log unloading	6.1 Complete site inductions and establish safe manoeuvring approach for unloading area with worksite personnel 6.2 Follow site personnel directions to manoeuvre and park truck to avoid site and equipment hazards 6.3 Shut down and secure truck in identified safe unloading zone 6.4 Inspect load for log movement and make provisions to support logs requiring difficult control during release 6.5 Release load securing devices in correct sequence for truck, trailer and load configuration and in line with site safe unloading procedures 6.6 Make truck, trailer and ancillary equipment safe for return journey to coupe 6.7 Record and report log haulage process, near miss incidents and truck operating faults to appropriate personnel according to workplace procedure

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	Interpret routine workplace health and safety instructions and signage to determine requirements
Writing	Use technical and workplace specific vocabulary to accurately and legibly complete workplace records and forms
Oral communication	- Ask questions and actively listen to clarify contents of workplace documentation - Give clear and sequenced information and ask clarifying questions when coordinating tasks with team members and others

Skill	Description
Numeracy	- Complete calculations against regulatory specifications of heights, widths and weights of loads and transportation distances, times and rest periods - Interpret truck gauges and warning devices - Record numerical data involving distances, times, weights and dimensions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3315 Transport forestry logs using trucks	FWPCOT3261 Transport forestry logs using trucks	Unit updated to match skill and knowledge requirements outlined in the industry Code of Practice Clarified Application Deleted and added a new Performance Criteria Updated Knowledge Evidence, Foundation Skills, Performance Evidence and Assessment Conditions	Not 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 FWPCOT3315 Transport forestry logs using trucks

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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 completed log haulage according to an individual work order and transport schedule of one mixed small load of logs and one similar large load of logs
- completed reports on the log haulage, near miss incidents and truck operating faults for each haulage operation.

In conducting this work, the individual has followed workplace policies and procedures, current workplace health and safety legislation, regulations and related industry standards and codes of practice applicable to transporting forestry logs using trucks.

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:

- purpose and content of applicable Commonwealth, state or territory transport regulations for driving heavy logging vehicles, with particular emphasis on load limits, allowable dimensions, driving hours, fatigue management and required rest breaks
- applicable fall from heights regulations and compliance requirements
- environmental protection practices relevant to driving heavy logging trucks to minimise:
 - fuel consumption
 - emissions
 - noise
 - damage to soil, water and other aspects of habitat
- key features of site conditions and effects on driving heavy logging trucks:
 - sealed and unsealed roads and tracks
 - ground slope
 - ground hazards and obstacles

- wind and dust
- fog and rain
- common safety hazards and risks associated with log haulage as outlined in industry code of practice methods used to assess vehicle condition and complete pre-start checks
- load construction practices used to eliminate or minimise risks as outlined in industry code of practice:
 - stanchion engagement and/or containment to prevent log loss in the event of limited load movement
 - load crowning and its relationship to load restraint
 - distribution of butts within the load and the effect on the load restraint and vehicle stability
 - distribution of weight across the load and the effect on the load restraint and vehicle stability
 - maximum permissible dimensions and masses including combination and axle
 - debris management and prevention of on-road projectiles
- load restraint practices used to eliminate or minimise risks as outlined in industry code of practice:
 - National Regulation Performance Standards for heavy vehicles (mass, dimension and loading) and their relationship to load restraint
 - principles of clamping and blocking for restraint
 - typical capacity and selection of load restraint systems
 - application of restraint required
 - effective use of blocking systems
- heavy vehicle stability and control practices used to eliminate or minimise risks as outlined in the industry code of practice:
 - evaluation of Static Roll Threshold and adjustment of load centre of gravity
 - assessment of vehicle condition
 - identification of hazardous driving conditions and/or environmental limitations and risk mitigation techniques
 - advantages of vehicle monitoring systems and how to operate them
- methods used to plan time-efficient routes and schedules to comply with regulations and environmental considerations
- features, capabilities and capacities of logging trucks and trailers:
 - rigid or articulated log trucks
 - semi-trailers
 - jinkers
 - quad-dogs
 - B doubles
 - two-bay skeletal trucks
- purpose, features, performance and safe operation of equipment:

- load restraint equipment, including stanchions, bolsters, grip plates, blocking systems, cab guards, lashings, automatic lashing tensioning systems, manual lashing tensioning systems
- active vehicle monitoring systems
- passive vehicle monitoring systems
- overhang warning devices, including flags, lights, reflectors and signs
- communication equipment, including two-way radio and hands-free mobile phones
- workplace procedures specific to transporting, loading and unloading logs:
 - workplace health and safety, with particular emphasis on rest breaks, emergency response procedures and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting log haulage processes, near miss incidents and truck operating 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 the workplace on a heavy log track or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - log trucks and trailers suitable for transporting logs
 - load restraint equipment and overhang warning devices suitable for transporting logs
 - supply of logs for mixed small load of logs and similar large load of logs
 - communication equipment
 - PPE required in log haulage operations
- specifications:
 - access to work order or instruction detailing the log haulage activity to be conducted by operator
 - access to workplace safety and environmental protection policies and procedures applicable to log haulage operations
 - access to workplace procedures and forms for recording log haulage information.

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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