



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT3226A Shift forestry logs using trucks

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit specifies the outcomes required to drive log trucks to a forestry harvesting site, load logs on site, deliver logs to their intended destination and unload the logs in accordance with organisational procedures and regulations. Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions

This unit replaces FPIH3032A Shift forestry logs using truck

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Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in forest and forest products operations of all sizes. The unit applies to a forest environment and involves application of skills and knowledge at a tradesperson level. These skills and knowledge are to be used within the scope of the persons job and authority

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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide

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Elements and Performance Criteria

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Element	Performance Criteria
1 Plan log movement	<p>1.1 Applicable Occupational Health and Safety (OHS), legislative and organisational requirements relevant to shifting forestry logs using trucks are identified and complied with</p> <p>1.2 Work order is reviewed and clarified with appropriate personnel</p> <p>1.3 Type of truck, ancillary equipment, accessories and configuration to be operated are checked for serviceability in accordance with manufacturer's specifications and statutory regulations</p> <p>1.4 Logging sites and logs to be transported are identified from schedules, work orders and harvesting site personnel</p> <p>1.5 Truck loads, transport routes, timing with harvesting personnel are planned and permits obtained to comply with statutory road regulations and road conditions</p> <p>1.6 Communication with others is established and maintained in accordance with OHS requirements</p>
2 Load and unload truck	<p>2.1 Access is identified and manoeuvring approach planned for loading and unloading sites</p> <p>2.2 Condition of roads and tracks are monitored and unexpected ground, water, vegetation or other</p>

environmental conditions reported to appropriate personnel

- 2.3 Truck and trailer are positioned to maintain load safety and security while loading occurs
- 2.4 Logs are assessed for weight, diameter, length and grade
- 2.5 **Log positioning equipment** is placed and checked or reset for planned loading
- 2.6 Log loading is undertaken to ensure **load build** meets specifications, follows sequence and locations to minimise handling, stabilises the load and meets transport requirements
- 2.7 Logs are secured with sufficient **securing devices** to satisfy safety, job and regulatory requirements
- 2.8 Load is inspected after transport for log movement and logs only supported by binders or chains
- 2.9 Safe unloading sequence is assessed and provisions made to support logs which cannot be controlled when released
- 2.1 Binders and chains are released in correct sequence
- 0 for truck, trailer and load configuration

3 Transport logs

- 3.1 Load is checked and **trimmed** to ensure safe transport with overhang warning devices fitted to comply with road regulations
- 3.2 Engine is started with instruments and gauges monitored to ensure equipment operation is safe according to manufacturer's specifications and safety rules
- 3.3 Truck is operated and driven to manufacturer's specifications and legislative requirements using **primary and subsidiary controls** as appropriate to conditions
- 3.4 Logs are transported following planned or modified route with consideration for road surfaces and conditions
- 3.5 Periodic load safety checks are conducted and load **re-tensioned** in accordance with statutory

requirements and road conditions

- 3.6 Truck is monitored using gauges, warning devices and observation of performance to detect operating faults
- 3.7 Log shifting process and truck operations including faults are **recorded and reported**
- 3.8 Truck is parked to avoid site and equipment hazards, engine shutdown and truck secured in accordance with manufacturer's specifications

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit

Required skills include:

comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for shifting forestry logs using trucks

use and maintain relevant tools, machinery and equipment

efficiently and safely shift forestry logs using trucks

identify problems and equipment faults and demonstrate appropriate response procedures

use appropriate communication and interpersonal techniques with colleagues and others

accurately record and report workplace information, and maintain documentation

Required knowledge and understanding includes:

applicable Commonwealth, State or Territory legislative, regulatory or certification requirements and codes of practice relevant to shifting forestry logs using trucks

organisational and site standards, requirements, policies and procedures for shifting forestry logs using trucks

principles of cultural diversity and access and equity

environmental protection requirements, including the safe disposal of waste material

established communication channels and protocols

problem identification and resolution

types of tools and equipment and procedures for their use, operation and maintenance

applicable fall from heights regulations and compliance requirements

log shifting equipment and techniques

scheduling and routing procedures

truck and equipment capabilities and

capacities

statutory road regulations

log loading and unloading methods

procedures for recording, reporting and maintaining workplace records and information

appropriate mathematical procedures for estimation and measurement including calculating time to complete tasks

KEYCOMPETENCIES

The seven key competencies represent generic skills considered necessary for effective participation by an individual in the workplace Performance Level 1 - at this level, the candidate is required to undertake tasks effectively Performance Level 2 - at this level, the candidate is required to manage tasks Performance Level 3 - at this level, the candidate is required to use concepts for evaluating and reshaping task

Key Competency	Example of Application	Performance Level
How are ideas and information communicated?	By recording, reporting and maintaining workplace information and documentation	1
How can information be collected, analysed and organised?	By reviewing schedules, work orders and confirming with relevant personnel logging sites and logs to be transported	1
How are activities planned and organised?	By obtaining required permits	2
How is team work used?	By establishing and maintaining communication with personnel at loading and unloading sites	1
How are mathematical ideas and techniques used?	By assessing logs for weight, diameter and length	2
How are problem solving skills applied?	By monitoring and reporting environmental conditions of roads and tracks	2

How is the use of technology applied? By monitoring truck gauges, warning devices and performance to identify operational faults 1

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Packag

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently shift forestry logs using trucks according to organisational requirements

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Comply with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice, including OHS, environmental and organisational policies and procedures, relevant to shifting forestry logs using trucks

Compliance with applicable licensing or certification requirements

Communicate effectively and work safely with others in the work area

Efficiently shift forestry logs using trucks to enterprise requirements

Efficiently and accurately shift forestry logs using trucks for production and output activities

Effectively coordinate personnel to follow procedures for shifting forestry logs using trucks

Context of and specific resources for assessment

Competency is to be assessed in the workplace or realistically simulated workplace

Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints

Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context

Assessment is to comply with relevant regulatory or Australian Standards requirements

The following resources should be made

available:

workplace location or simulated workplace
materials and equipment relevant to shifting
forestry logs using trucks
specifications and work instructions

Method of assessment

Assessment must satisfy the endorsed
Assessment Guidelines of the FPI05
Training Package

Assessment methods must confirm
consistency and accuracy of performance
(over time and in a range of workplace
relevant contexts) together with application
of underpinning knowledge

Assessment must be by direct observation of
tasks, with questioning on underpinning
knowledge and it must also reinforce the
integration of key competencies

Assessment methods must confirm the
ability to access and correctly interpret and
apply the essential underpinning knowledge

Assessment may be applied under
project-related conditions (real or simulated)
and require evidence of process

Assessment must confirm a reasonable
inference that competency is able not only to
be satisfied under the particular
circumstance, but is able to be transferred to
other circumstances

Assessment may be in conjunction with
assessment of other units of competency

The assessment environment should not
disadvantage the candidate

Assessment practices should take into
account any relevant language or cultural
issues related to Aboriginality, gender or
language backgrounds other than English

Where the participant has a disability,
reasonable adjustment may be applied during
assessment

Language and literacy demands of the
assessment task should not be higher than

those of the work role

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the Performance Criteria is detailed below

OHS requirements are to be in accordance with Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures. Requirements may include:

the use of personal protective equipment and clothing
safety equipment
first aid equipment
fire fighting equipment
hazard and risk control
elimination of hazardous materials and substances
safe forest practices
manual handling including shifting, lifting and carrying
fall from heights regulations

Legislative requirements are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include:

award and enterprise agreements
industrial relations
Australian Standards
confidentiality and privacy
OHS
the environment
equal opportunity
anti-discrimination
relevant industry codes of practice
duty of care
heritage and traditional land owner issues

Organisational requirements

may include legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices,

	equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)
Work order	is to include instructions for equipment allocation and usage, location and intended activity to designated personnel
Appropriate personnel	may include supervisors, suppliers, clients, colleagues and managers
Truck	may include rigid or articulated log trucks, including semi-trailers, jinkers, quad-dogs, B doubles and two-bay skeletal trucks
Ancillary equipment	may include safety fittings, headache boards and cab guards
Accessories	may include tools, records, first aid kits, fire extinguishers, binders, chains and personal protective equipment
Configuration	is to include a truck and trailer combination
Logs	are to include assessment of diameter range, curvature, faults and length
Communication	may include schedules, verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
Environmental conditions	may include ground growth, canopy, general forest lean, fallen trees, ground slope, soil and water protection, ground hazards and obstacles
Log positioning equipment	may include bolsters, slippers, stanchions and chocks
Load build	is to include positioning of logs on truck so as to avoid uneven weight distribution, instability or uncontrolled collapse of the load during loading or unloading, requirements for trailer rigidity, turning clearance, overhang, projection above

	stanchions, crowning, weight distribution on truck and trailer axles, contact with bolsters, stanchions and other logs
Securing devices	are to include chains, binders and other tensioning devices
Trimming	is to include preparing the truck and load for safe transport
Primary and subsidiary controls	<p>primary controls may include power, brakes, steering, speed, position, load reaction and gear selection</p> <p>subsidiary controls may include differential lock, centre tyre inflation (CTI) and power dividers</p>
Re-tensioning	is to include re-tightening of the chains, binders and other tensioning devices
Records and reports	<p>may include scheduling and coordination outcomes, log movement, despatch outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions</p> <p>may be manual, using a computer-based system or another appropriate organisational communication system</p>

Unit Sector(s)

Not applicable.

Competency Field

Common Technical
Common Technical