Australian Government

Department of Education, Employment and Workplace Relations

FPICOT3226B Shift forestry logs using trucks

Release: 1

FPICOT3226B Shift forestry logs using trucks

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes 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 line with organisational procedures and regulations

Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions

This unit replaces FPICOT3226A Shift forestry logs using trucks

Application of the Unit

Application of the unit

The unit involves shifting forestry logs using trucks in a forest environment setting

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan log movement	1.1. Applicable ***occupational health and safety*** (OHS), ***environmental***, ***legislative*** and ***organisational requirements*** relevant to shifting forestry logs using trucks are identified and followed 1.2. ***Work order*** is reviewed and clarified with ***appropriate personnel*** 1.3. Type of ***truck***, ***ancillary equipment***, ***accessories*** and ***configuration*** to be operated are checked for serviceability in line with manufacturer specifications and statutory regulations 1.4. Logging sites and ***logs*** to be transported are identified from schedules, work orders and harvesting site personnel 1.5. Truck loads, transport routes and timing with harvesting personnel are planned and permits obtained to follow statutory road regulations and road conditions 1.6. ***Communication*** with others is established and maintained in line with OHS requirements
2. Load and unload truck	2.1. Access is identified and manoeuvring approach planned for loading and unloading sites 2.2. Condition of roads and tracks are monitored and unexpected ground, water, vegetation or other ***environmental conditions*** are 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 are made to support logs that cannot be controlled

ELEMENT	PERFORMANCE CRITERIA
	when released
	2.10. Binders and chains are released in correct sequence 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 follow road regulations
	3.2. Engine is started with instruments and gauges monitored to ensure equipment operation is safe, in line with manufacturer specifications and safety rules
	3.3. Truck is operated and driven to manufacturer 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 is ***re-tensioned*** in line 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 is shutdown and truck is secured in line with manufacturer specifications

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; efficiently and safely shift forestry logs using trucks
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others
- Literacy skills sufficient to record and report workplace information; maintain

REQUIRED SKILLS AND KNOWLEDGE

documentation

- Numeracy skills sufficient to measure, estimate and calculate time required to complete a task
- Problem solving skills sufficient to identify problems and equipment faults; demonstrate appropriate response procedures

Required knowledge

- Applicable commonwealth, state or territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for shifting forestry logs using trucks
- Environmental protection requirements, including the safe disposal of waste material, and the minimisation of carbon emissions
- Organisational and site standards, requirements, policies and procedures for shifting forestry logs using trucks
- Environmental risks and hazards
- Using energy effectively and efficiently
- 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
- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- Types of tools and equipment, and procedures for their safe use and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace information

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

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 in line with organisational requirements
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to, and satisfy, all of the requirements of the elements of this unit and include demonstration of: • following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to shifting forestry logs using trucks • following organisational policies and procedures relevant to shifting forestry logs using trucks • shifting forestry logs using trucks for production and output activities in line with enterprise requirements • coordinating 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 required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
	• Assessment is to follow relevant regulatory or Australian Standards requirements
	• The following resources should be made available:
	  • workplace location or simulated workplace
	  • materials and equipment relevant to undertaking work applicable to this unit
	  • specifications and work instructions

Method of assessment	• Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package • Assessment methods must confirm consistency and accuracy of performance (over time and in a range of

EVIDENCE GUIDE

workplace relevant contexts) together with application of required knowledge

- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required 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, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements: are to be in line with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and

RANGE STATEMENT

may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices, including required actions relating to forest fire
- manual handling including shifting, lifting and carrying

Environmental requirements may include:

- legislation
- organisational policies and procedures
- workplace practices

Legislative requirements: are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and 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

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 procedures
- ethical standards

RANGE STATEMENT

	• recording and reporting requirements • equipment use, maintenance and storage requirements • environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
Work order is to include:	• instructions for equipment allocation and usage • location • intended activity to designated personnel and may also include: • instructions for the environmental monitoring of work and procedures • environmental care requirements relevant to the work
Appropriate personnel may include:	• supervisors • suppliers • clients • colleagues • managers

Truck may include:	• rigid or articulated timber trucks, including:
	  • semi-trailers
	  • jinkers
	  • quad-dogs
	  • B doubles
	  • two-bay skeletal trucks

Ancillary equipment may include:	• safety fittings • headache boards • cab guards
Accessories may include:	• tools • records • first aid kits • fire extinguishers • binders • chains • personal protective equipment
Configuration is to include:	• truck and trailer combination
Logs are to include:	assessment of:

RANGE STATEMENT

	• diameter range • curvature • faults • length
Communication may include:	• 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
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 • 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
	  • overhang
	• requirements for trailer rigidity
	• turning clearance
	• 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 • other tensioning devices

RANGE STATEMENT

Trimming	is the process of preparing the truck and load for safe transport
Primary controls may include:	• power • brakes • steering • speed • position • load reaction • gear selection
Subsidiary controls may include:	• differential lock • centre tyre inflation (CTI) • power dividers
Re-tensioning is to include:	• re-tightening of the chains, binders and other tensioning devices
Records and reports may include:	• scheduling and coordination outcomes • log movement • despatch outcomes • storage locations • quality outcomes • hazards • incidents • equipment malfunctions and may be: • manual • a computer-based system • other appropriate organisational communication system

Unit Sector(s)

Not Applicable

Competency field

Competency field Common Technical