



Australian Government

**TLILIC0005 Licence to operate a
boom-type elevating work platform (boom
length 11 metres or more)**

Release: 2

TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement changes in unit Application
- Minor changes and re-ordering of Performance Evidence
- Minor re-ordering of Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit specifies the skills and knowledge required to safely operate a boom-type Elevating Work Platform (EWP) where the length of the boom is 11 metres or more in accordance with all relevant legislative requirements. Competence in this unit, does not in itself result in a Risk Work Licence (HRWL) to operate this plant.

Boom-type elevating work platform means a telescoping device, hinged device, or articulated device, or any combination of these, used to support a platform on which personnel, equipment and materials may be elevated.

A person performing this work is required to hold a boom-type elevating work platform HRWL.

This unit requires a person operating an EWP to:

- plan for the work/task
- prepare for the work/task
- perform work/task
- pack up.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit of competency.

This unit is based on the licensing requirements of Part 4.5 of the Model Work Health and Safety (WHS) Regulations and meets Commonwealth, State and Territory HRWL requirements.

The National Assessment Instrument (NAI) is the mandated assessment for the HRWL to operate the relevant licencing class as detailed in this unit.

Pre-requisite Unit

Not applicable

Competency Field

LIC - Licencing Units

Unit Sector

Not applicable

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Plan work/task

- 1.1** Task requirements are identified from work orders or equivalent and confirmed with relevant people and a site inspection is completed in accordance with workplace procedures
- 1.2** Work area ground/operating surface is assessed to determine suitability for operational use of EWP in accordance with manufacturer requirements and workplace procedures
- 1.3** EWP capabilities are established for the load/s and work/task requirements in accordance with manufacturer requirements and workplace procedures
- 1.4** Appropriate paths for operating the EWP and moving in work area are assessed and determined in accordance with workplace procedures
- 1.5** Relevant hazard and risk control measures are applied and advised to relevant person/s in accordance with workplace procedures

- 1.6** Traffic management plan implementation is confirmed in accordance with workplace procedures
 - 1.7** Appropriate communication procedures are identified, with relevant people in accordance with workplace procedures
 - 1.8** All work is confirmed to ensure coverage of work/task requirements for the relevant work area in accordance with workplace procedures
- 2 Prepare for work/task**
 - 2.1** Consultation with workplace person/s is maintained to ensure workplan is clear and consistent with site requirements in accordance with workplace procedures
 - 2.2** Risk control measures for hazards identified are checked for implementation in accordance with workplace procedures
 - 2.3** Safety equipment including Personal Protective Equipment (PPE) are inspected, fitted correctly and used in accordance with manufacturer requirements and safe work procedures
 - 2.4** EWP is accessed in a safe manner in accordance with manufacturer requirements and safe work procedures
 - 2.5** Pre-start EWP checks are carried out in accordance with manufacturers requirements and safe work procedures
 - 2.6** EWP is started and is checked for any abnormal noises in accordance safe work procedures
 - 2.7** EWP is positioned correctly as per work plan in work area in accordance with relevant manufacturer requirements and safe work procedures
 - 2.8** EWP is stabilised appropriately in accordance with the workplan, relevant manufacturer requirements and safe work procedures

- 2.9** Operational checks from base controls are carried out in accordance with relevant manufacturer requirements and safe work procedures
 - 2.10** All platform controls are located, identified and tested in accordance with manufacturer requirements and safe work procedures
 - 2.11** All damage and defects are reported and appropriate action is taken to rectify in accordance with manufacturer requirements and safe work procedures
 - 2.12** EWP logbook is inspected and is correct for the EWP, is completed and signed in accordance with manufacturer requirements and safe work procedures
 - 2.13** Weather and work environmental conditions are assessed to determine any impact on EWP operation and positioning as per workplan in accordance with manufacturer requirements and safe work procedures
- 3 Perform work/task**
 - 3.1** Relevant hazard prevention/control measures identified are checked for implementation in accordance with safe work procedures
 - 3.2** EWP is safely located at point of work in work area in accordance with safe work procedures
 - 3.3** EWP platform is positioned for work tasks and stability and all operations are monitored constantly in accordance with safe work procedures
 - 3.4** Work gear and tools are stowed and secured in accordance with safe work procedures
 - 3.5** EWP is operated using all movements in accordance with safe work procedures and manufacturer requirements
 - 3.6** Unplanned and unsafe situations are responded to in accordance with safe work procedures

3.7 All communication signals are correctly interpreted and followed whilst EWP is operated in accordance with safe work procedures

3.8 EWP platform is accessed and egressed in accordance with safe work procedures and manufacturer requirements

3.9 EWP is parked, switched off and isolated appropriately in accordance with manufacturer requirements and safe work procedures

4 Pack up

4.1 Post-operational EWP checks are carried out in accordance with manufacturer requirements and safe work procedures

4.2 EWP boom is retracted, lowered, stowed and secured in accordance with manufacturer requirements and safe work procedures

4.3 Safety equipment and PPE is disconnected from platform in accordance with safe work procedures

4.4 Relevant motion locks and brakes are applied as required in accordance with manufacturer requirements and safe work procedures

4.5 Outriggers and/or stabilisers, plates or packing if fitted are stowed and secured in accordance and with manufacturer requirements and safe work procedures

4.6 EWP is shut down in accordance with manufacturer requirements and safe work procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLILIC2005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

Links

Companion Volume Implementation Guide -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and include:

- advising relevant person/s on site in relation to any hazards and risk elimination/control strategies
- applying safe operating procedures for an Elevating Work Platform (EWP) including all functions within the safe working rated capacity including:
 - boom/s as low as possible and fully retracted whilst travelling (self propelled EWP only)
 - boom/s in line with EWP where practical whilst travelling (self propelled EWP only)
 - EWP stability
 - gently accelerating and braking to minimise boom/s swing (self propelled EWP only)
 - maintaining safe operating speed in relation to the work condition
 - travelling with work platform raised to an appropriate height for the terrain and visibility in relation to direction of travel (self propelled EWP only and in accordance with manufacturers specifications)
- applying emergency procedures
- applying traffic management plan procedures relevant to their role in the work area
- carrying out operational checks on EWP including:
 - testing of all EWP safety devices
 - all controls are located, identified and tested for functionality from the base controls and platform controls
 - hazard warning systems including travel beepers and lights are functional
 - start-up is in accordance with manufacturer requirements
 - steering, transmission and brake functions comply with operating requirements (self

- propelled EWP only)
- there are no unusual noises
- carrying out pre-start checks, including visual inspection which must include:
 - battery fluid level as required by manufacturer requirements
 - checking compliance plate is relevant to the load/s being used on the EWP
 - engine / mechanical fluid level checks as required by manufacturer requirements
 - ensuring availability of correct logbook and updating records as required
 - ensuring EWP platform and attachment/s fitted in platform are secured
 - evidence of damage
 - fluid leaks
 - lights are working effectively (where fitted)
 - safety equipment checks
 - signage and labels to ensure they are visible and legible
 - structural weaknesses including paint separation or stressed welds
 - wheels and tyres for damage/correct inflation if applicable
- checking compliance plate and load chart for reach requirements and load suitability
- clarifying workplan and checking understanding
- complying with Commonwealth, State and/or Territory work health and safety (WHS)/occupational health and safety (OHS)/occupational safety and health (OSH) legislation and regulations
- controlling and operating a boom type elevating work platform ensuring movements and control functions are safe, smooth and comply with operating requirements including:
 - any combination of the movement of the extending boom used to support a platform on which personnel, equipment and materials are elevated to perform the work task/s
 - avoidance of ground depressions
 - correctly using observer guidance of work platform, main chassis and extending boom
 - demonstrating the safe operation of an EWP in forward and reverse, while maintaining visibility (where applicable)
 - driving (where applicable) applicable to conditions and moving platform and load/s safely
 - ensuring warning devices are functioning correctly
 - interpreting directional arrows correctly on platform controls during forward, reverse, left and right
 - lowering boom to its resting position
 - monitoring platform, main chassis and extending boom movement constantly ensuring safe work procedures are followed
 - raising platform and slewing within manufacturer requirements
 - raising platform to its full extent or 75% of the maximum height capacity (whichever is greater)
 - stability of the EWP and the work platform
 - manoeuvring and positioning the platform to perform work task/s safely whilst at its full extent or a minimum height of 75% of the maximum capacity (whichever is greater)

- conducting and applying hazard identification and risk elimination or minimisation strategies including:
 - barricades and controls to prevent the risk of collision with people, moving vehicles and fixed structures
 - environmental conditions including:
 - wind
 - lightning
 - water impacted ground
 - rain
 - extreme heat
 - Ultra Violet (UV) exposure
 - ground conditions (surface and slopes) and assessing work area operating surface suitability based on machine and task requirements
 - overhead hazards including electric lines and service pipes
 - personal protective equipment (PPE)
 - restricted areas and crush points from work platform and external surroundings
 - safety related tags on electrical switches/isolators that have an impact on point of work of EWP operator
 - sufficient lighting
 - suitable area for set-up, positioning and safely operating EWP
 - suitable firm and stable operating surface
 - use of safety observer
- entering work platform correctly including:
 - lowering platform safely and stably to appropriate height to access safely
 - clipping on of fall restraint/arrest device
 - accessing platform safely
- exiting work platform correctly including:
 - lowering platform safely and stably to appropriate height to egress safely
 - unclipping of fall restraint/arrest device
 - exiting platform safely
- identifying, isolating and tagging out defective equipment and reporting to authorised person/s
- inspecting and using relevant safety equipment, including:
 - anchor point/s
 - emergency retrieval system from base controls and platform controls where fitted
 - energy absorber/s
 - lanyard/s
 - safety harness/es
- interpreting and confirming relevant documentation, workplace instructions, safety information and emergency procedures for the work task and relevant area
- interpreting workplace procedures in relation to various work environmental conditions

- maintaining communication with other workplace personnel using appropriate workplace procedures including procedures to ensure all movements are conveyed clearly and succinctly including:
 - 2-way radio
 - audible and visual warning devices
 - making and interpreting hand signals
 - questioning to confirm understanding
 - signage
 - written instructions
- recording and maintaining accurate information relating to EWP operations
- reporting to relevant person/s on site risk control measures that are not in place or deficient
- stabilising procedures for an EWP including:
 - checking levels
 - removing obstacles and obstructions
 - deploying and retracting outriggers (if fitted)
 - establishing correct size plates for packing (if required)
- shutting down a boom type EWP in accordance with manufacturer requirements and workplace procedures
- using and interpreting EWP manufacturer requirements and data, including compliance plate and load chart, to enable correct EWP selection for task including:
 - boom
 - platform
 - weight including outrigger load or wheel load.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- Australian and industry standards, codes of practice and guidelines to safely operate an EWP (boom length 11 metres or more) including:
 - nominal reach, measured horizontally from centre point of rotation to outer edge of platform in its most extended position
 - vertical distance from floor of platform to surface supporting elevating work platform with platform at its maximum height
- appropriate mathematical calculations to estimate loads ensuring EWP is not overloaded
- appropriate workplace communication procedures including:
 - 2-way radio
 - audible and visual warning devices
 - questioning techniques
 - signage
 - hand signals

- traffic warning systems
- written instructions
- compliance with permit condition requirements including:
 - from electrical supply authority
 - if operating on roads or footpaths
- EWP characteristics and capabilities, manufacturer requirements and instructions
- hazards including:
 - all ground and /or operating surface hazards
 - traffic including pedestrians, vehicles, other mobile plant and building structures
 - overhead hazards including electric lines, service pipes, doorways, roof beams, and lights
 - obstacles or obstructions
 - insufficient lighting
 - other relevant hazards
- identification and avoidance of person/s potential crush or entrapment points
- identification and avoidance of potential contact with overhead electrical conductor's
- identification and avoidance of potential contact with structures near work platform/boom or chassis
- impact of the following on the operation of the EWP including:
 - failure/loss of control including brakes and steering
 - failure of equipment including hydraulic system
 - EWP and platform instability due to:
 - deterioration of ground/operating surface condition
 - gradient of operating surface
 - overloading
 - poor load placement
 - irregular loads
 - emergency procedures and safety equipment, including the use of:
 - safety harness/es
 - energy absorbers
 - lanyard/s
 - anchor point/s
 - emergency retrieval systems
- lock out and tag out procedures
- problems, and appropriate response procedures to unplanned and/or unsafe environmental conditions
- procedures for recording, reporting and maintaining workplace records and information
- relevant manufacturer requirements and instructions
- relevant procedures for refuelling/recharging EWP using appropriate PPE
- risk assessment process including hierarchy of control:
 - elimination

- substitution
- isolation
- engineering controls
- administrative controls
- personal protective equipment (PPE)
- problems and equipment faults, and implementing appropriate response procedures to unplanned and/or unsafe situations
- procedures for shutting down a boom type EWP in accordance with manufacturer requirements
- relevant documentation requirements
- suitability and lifting capability of the EWP to be used
- traffic management plan procedures and requirements
- typical routine problems encountered operating a EWP and adjustments required for correction
- wind speed factors that affect stability of EWP as per manufacturer requirements
- work area operating surface suitability including issues with:
 - backfilled ground
 - bitumen (damaged, cracked)
 - concrete (damaged, cracked)
 - hard compacted soil
 - potholes
 - railway tracks
 - rough uneven or difficult terrain including sloping surfaces, uneven surfaces, steel decks and grates
 - soft soils
 - trench covers
- work health and safety (WHS)/occupational health and safety (OHS)/occupational safety and health (OSH) and codes of practice requirements for boom type elevating work platforms
- work plan which may be verbal, documented/written, or electronically generated

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace

conditions.

- Simulators must not be used in the assessment of this unit of competency

Resources for assessment must include access to:

- appropriate boom-type elevating work platform (boom length 11 metres or more) in a safe/serviceable condition in accordance with manufacturer requirements
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including:
 - approved codes of practice and relevant guidance material
 - relevant Australian technical standards
 - manufacturer guidelines (instructions, requirements or checklists), relevant industry standards and operating procedures (where applicable).

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