



**Australian Government**

**Assessment Requirements for TLILIC2005  
Licence to operate a boom-type elevating  
work platform (boom length 11 metres or  
more)**

# **Assessment Requirements for TLILIC2005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)**

## **Modification History**

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

## **Performance Evidence**

A person who demonstrates competency in this unit must provide evidence of safely operating a boom type elevating work platform with a boom lengths of 11 metres or more and satisfy all of the elements, performance criteria and foundation skills requirements of the unit on at least one occasion including:

- applying appropriate mathematical procedures to estimate loads
- applying best operating practice including:
  - avoiding ground depressions
  - gently accelerating and braking
  - minimum speed
  - minimum boom/jib length
- applying emergency procedures and safety equipment, including the use of safety harnesses, energy absorbers, lanyard and anchor points
- applying hazard prevention/control measures including:
  - disconnected power
  - illumination requirements
  - insulated electric lines
  - moving obstructions
  - pedestrian controls
  - personal protective equipment
  - safety tags on electrical switches/isolators
  - using safety observer inside exclusion zone
  - suitable area for set-up
  - suitable firm and stable standing
  - traffic barricades and controls
  - trench covers
- applying relevant plant movements including:
  - articulating
  - hinging
  - lowering boom

- raising boom
- slewing
- telescoping
- applying risk assessment and hazard control strategies, including hierarchy of control as applied to positioning and safely operating an elevating work platform
- assessing ground conditions to confirm site is suitable (e.g. firm, level and safe) to extend and travel the elevating work platform
- communicating with other workplace personnel through:
  - appropriate worksite protocols
  - bells
  - buzzers
  - listening
  - making and interpreting hand signals
  - questioning to confirm understanding
  - signage
  - two way radios
  - verbal and non-verbal language
  - written instructions
- complying with WHS/OHS licensing legislation
- identifying problems and equipment faults and where practicable demonstrating appropriate response procedures
- operating and controlling a boom type elevating work platform including all functions to their maximum extension within the safe working (rated) capacity including:
  - a telescoping device
  - articulated device
  - hinged device
  - or any combination of the above used to support a platform on which personnel, equipment and materials may be elevated to perform work
- positioning, stabilising, set up of elevating work platforms, including the use of outriggers/stabilisers and packing to ensure that the safest lift is performed
- receiving and interpreting workplace instructions, safety information, emergency procedures
- recording and maintaining accurate information relating to operating elevating work platform
- shutting down a boom type elevating work platform in accordance with manufacturer specifications and workplace procedures including:
  - idling engine to stabilise temperature
  - folding boom/jib into the transport position
  - removing key from ignition
  - retracting boom/jib
  - retracting outriggers/stabilisers
  - turning off engine

- stabilising a boom type elevating work platform by:
  - correctly positioning plates or packing
  - deploying outriggers
  - establishing correct size plates or packing
- using and interpreting manufacturer specifications and data
- using communications signals including:
  - luff boom down – hand
  - luff boom down – whistle and/or two-way radio
  - luff boom up – hand
  - luff boom up – whistle and/two-way radio
  - stop –hand
  - stop – whistle and/or two-way radio
  - telescope out – hand
  - telescope out – whistle and/or two-way radio
  - telescope in – hand
  - telescope in – whistle and/or two-way radio
- using outriggers/stabilisers and packing to ensure safest lift is performed
- verifying problems and equipment faults and applying appropriate response procedures to unplanned and/or unsafe situations including:
  - contact with overhead electrical conductors
  - damage caused by contact with obstructions
  - environmental conditions (e.g. wind, lightning, storms, etc.)
  - failure of controls
  - illness of personnel
  - loss of power.

## 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:

- appropriate mathematical procedures for estimating loads to ensure elevating work platform is not overloaded
- Australian and industry standards relevant to operating a boom-type elevating work platform (boom length 11 metres or more)
- boom length capability 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
- Commonwealth, state or territory WHS/OHS legislation, standards and codes of practice relevant to the full range of processes for the crane class
- ground stability including:
  - backfilled ground
  - bitumen
  - concrete
  - hard compacted soil
  - rock
  - rough uneven ground
  - soft soils
- elevating work platform characteristics, operations and operating techniques
- emergency procedures and safety equipment, including the use of safety harness, energy absorber, lanyard and anchor points
- hazards including:
  - environmental conditions (e.g. wind, lightning, storms, etc.)
  - ground stability (e.g. ground condition, recently filled trenches, slopes)
  - insufficient lighting
  - other specific hazards (e.g. tidal areas, chainsaws, pressure washers, dangerous materials)
  - overhead hazards (e.g. electric lines, service pipes, trees, buildings etc.)
  - traffic (e.g. pedestrians, vehicles, plant)
- hierarchy of hazard identification and control:
  - elimination
  - substitution
  - isolation
  - engineering controls
  - administrative controls
  - personal protective equipment (PPE)
- procedures for recording, reporting and maintaining workplace records and information, including using the service logbook
- organisational and workplace standards, requirements, policies and procedures for conducting elevating work platform operations
- rated capacity and working load limits
- risks associated with overhead electric lines/electrical cables, ground conditions, wind, pedestrians and tipping
- systematic process of eliminating or reducing risk to personnel and property through the application of controls
- typical routine problems encountered in the process and with equipment, and adjustments required for correction.

## Assessment Conditions

Assessments must be conducted by an assessor accredited for this high risk work (HRW) licence class in the Commonwealth/state/territory where the licence will be obtained (i.e. an assessor authorised by a Commonwealth/state/territory WHS/OHS regulator).

As a minimum, assessors must satisfy applicable regulatory requirements, which may include requirements in 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 all assessment must be conducted in the English language.

Assessment of performance must be undertaken in the workplace and/or under realistic workplace conditions which typically reflect:

- performing tasks/activities within timelines that would be expected in a workplace
- standard and authorised work practices, safety requirements and environmental constraints
- using full-scale equipment

Boom-type elevating work platform (boom length 11 metres or more) operation assessment must be conducted in a working zone in accordance with state/territory arrangements.

If the working zone is located at a 'live' site, assessment should continue in all weather conditions unless the safety of the candidate or others could be compromised.

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

Accredited assessors are responsible for ensuring candidates have access to:

- appropriate boom-type elevating work platform (boom length 11 metres or more) and associated equipment in safe condition
- appropriate safety equipment and devices including:
  - anchor points
  - audible and visual reversing devices
  - energy absorber
  - horns/sirens
  - lanyard
  - lights as required
  - operator restraint devices (platform gate)
  - safety harness
- communications equipment including:
  - mobile phone
  - two-way radios

- required personal protective equipment (PPE) for the purpose of the Performance Assessment
- where appropriate, relevant workplace procedures and standards for operating a boom-type elevating work platform including:
  - approved codes of practice and guidance
  - Australian Standards
  - checklists
  - industry operating procedures
  - relevant industry standards (where applicable)
  - manufacturer guidelines (instructions, specifications or checklists) for the purpose of the Performance Assessment
  - safe work method statement (SWMS), as required
  - service logbooks/logbooks
  - signage and labels
  - history record system where service and maintenance history is kept.

## Links

Companion Volume implementation guides are found in VETNet -

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