



Australian Government

Department of Education, Employment and Workplace Relations

TLILIC508A Licence to operate a boom-type elevating work platform (boom length 11 meters or more)

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit specifies the outcomes required to operate a boom-type elevating work platform (boom length 11 metres or more) for licensing purposes, and involves the operation of 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 to perform work. The 11 metre boom length shall be taken to mean the greater of the following:

- (a) The vertical distance from the floor of the platform to the surface supporting the elevating work platform with the platform at its maximum height; or
- (b) The nominal reach, measured horizontally from the centre point of rotation to the outer edge of the platform in its most extended position.

Application of the Unit

This unit requires the operator to plan the work, conduct routine checks, set up elevating work platform, operate elevating work platform and shut down and secure elevating work platform. This unit is based on the requirements of the National Standard for Licensing Persons Performing High Risk Work.

This unit in its current form meets state and territory licensing requirements. Any alteration will result in a unit which is not acceptable to regulators for the purpose of licensing.

Licensing/Regulatory Information

Refer to Application of the Unit

Pre-Requisites

Not applicable.

Employability Skills Information

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 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.

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Plan work	<p>1.1 Potential workplace hazards are identified</p> <p>1.2 Hazard control measures are identified consistent with appropriate standards to ensure the safety of personnel and equipment</p> <p>1.3 Elevating work platform is appropriate for the task</p> <p>1.4 Appropriate communication methods are identified</p>
2 Conduct routine checks	<p>2.1 Service logbook for elevating work platform is checked for compliance</p> <p>2.2 Elevating work platform is visually checked for any defects or damage according to procedures</p> <p>2.3 Routine pre-operational checks are carried out according to procedures</p> <p>2.4 Safety equipment is inspected according to procedures</p> <p>2.5 Elevating work platform is accessed in a safe manner</p> <p>2.6 Fit safety equipment and secure to platform according to procedures</p> <p>2.7 All controls are located and identified</p> <p>2.8 Elevating work platform is started according to procedures</p>

- 2.9 All **safety devices** are identified and tested according to **procedures**
- 2.1 Post-start operational checks are carried out according to **procedures**
- 2.1 All **communication equipment** is checked (where applicable)
- 2.1 All defects and damage are reported and recorded in according to **procedures**, and appropriate action is taken
- 3 Set up elevating work platform
 - 3.1 **Ground suitability** is inspected and checked
 - 3.2 Elevating work platform is driven to or located at work area according to **procedures** (where applicable)
 - 3.3 Elevating work platform is positioned for work application and **stability** according to **procedures**
 - 3.4 Appropriate **hazard prevention/control measures** are applied to the work area according to **procedures**
 - 3.5 Work gear and tools are stowed and secured
- 4 Operate elevating work platform
 - 4.1 **Elevating work platform** is operated using all **relevant plant movements** according to **procedures** and the **appropriate standards**
 - 4.2 **Elevating work platform** is mobiled using **best mobile practice** and appropriate **procedures**
 - 4.3 Elevated working platform operations are monitored constantly ensuring safety of personnel and stability
 - 4.4 **Unplanned and/or unsafe situations** are responded to in line with **procedures**
- 5 Shut down and secure elevating work platform
 - 5.1 **Elevating work platform** is lowered and stowed according to **procedures**
 - 5.2 All relevant motion locks and brakes are applied (where applicable)
 - 5.3 **Safety equipment** is disconnected from platform

- 5.4 Egress from **elevated work platform** is conducted according to **procedures**
- 5.5 Outriggers/stabilisers are stowed and secured according to **procedures** (where applicable)
- 5.6 Plates or packing are stowed and secured (where applicable)
- 5.7 Elevating work platform is **shut down** according to **procedures**
- 5.8 Routine post-operational checks are carried out according to **procedures**
- 5.9 All defects and damage are reported and recorded according to **procedures**, and appropriate action is taken

Required Skills and Knowledge

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

Required skills:

Accurately record and maintain information relating to elevating work platform operations
Assess ground conditions to confirm that the site is suitable (e.g. firm, level and safe) to extend and travel the elevating work platform
Complete the positioning, stabilising, set up of elevating work platforms, including the use of outriggers/stabilisers and packing
Operate mobile elevating work platform using best mobile practice
Use communication skills at a level sufficient to communicate with other site personnel
Operate and control an elevating work platform including all functions to their maximum extension within the safe working (rated) capacity
Apply risk assessment and hazard control strategies, including hierarchy of control as applied to the positioning and safe operation of the elevating work platform (particular awareness of the risks associated with overhead powerlines/electrical cables, ground conditions, wind, pedestrians and tipping)
Use and interpret manufacturer's specifications and data
Identify problems and equipment faults and where practicable demonstrate appropriate response procedures

Required knowledge:

Appropriate mathematical procedures for estimation of loads, to ensure that the elevating work platform is not overloaded
Commonwealth, state or territory OH&S legislation, standards and codes of practice relevant to the full range of processes for conducting elevating work platform operations
Ability to read and comprehend manufacturer's instructions, procedures and safety signs
Understanding of elevating work platform operations and operating techniques
Emergency procedures and safety equipment, including the use of safety harness, energy absorber, lanyard and anchor points
Understanding of organisational and workplace standards, requirements, policies and procedures for conducting elevating work platform operations
Understanding of the hierarchy of hazard identification and control
Procedures for the recording, reporting and maintenance of workplace records and information, including the use of the service logbook
Typical routine problems encountered in the process and with equipment and adjustments required for correction

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 the Training Package.

Overview of assessment

Successful assessment of this unit meets the competency requirement of the National Standard for Licensing Persons Performing High Risk Work.

State/territory OH&S regulators have mandated the use of Assessment Instruments and Instructions for Assessment for this unit which have been endorsed by the national body responsible for OH&S matters.

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

Compliance with OH&S licensing legislation.

Emergency procedures and safety equipment, including the use of safety harnesses, energy absorbers, lanyard and anchor points.

Assessment of ground conditions to confirm that the site is suitable (e.g. firm, level and safe) to extend and travel the elevating work platform.

Risk assessment and hazard control strategies, including hierarchy of control as applied to the positioning and safe operation of the elevating work platform (particular awareness of the risks associated with overhead powerlines/electrical cables, ground conditions, wind, pedestrians and tipping).

Appropriate procedures for estimation of loads, to ensure that the elevating work platform is not overloaded.

Positioning and operation of the elevating work platform to ensure that the safest lift is performed.

Context of and specific resources for assessment

Assessment of the safe and effective application of knowledge and skill to workplace tasks (performance) must be undertaken using the endorsed Assessment Instrument.

Assessment of performance must be

undertaken either in the workplace or in a realistically simulated workplace.
Assessors must ensure that the assessment in the workplace is organised to ensure that all the required equipment and materials and a suitable working area is made available to suit the assessment and the workplace.
Assessment must occur under standard and authorised work practices, safety requirements and environmental constraints.
Assessment is to comply with relevant appropriate standard requirements.
Applicants must have access to:
Personal Protective Equipment (PPE) for the purpose of the Performance Assessment
appropriate safety equipment in safe condition
appropriate elevated working platform and associated equipment in safe condition
communication equipment (e.g. two-way radios, mobile phones etc.) where applicable.

Method of assessment

Assessment must be conducted using the endorsed Assessment Instruments. These Instruments provide advice on their application.
The use of '**simulators**' in the assessment of this unit of competency is **not acceptable**.
Assessment may be in conjunction with the assessment of other units of competency.
Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.
Assessment must confirm a reasonable inference that competency is not only able to be satisfied under the particular circumstances, but is able to be transferred to other circumstances.

Guidance information for assessment

Further information about endorsed Assessment Instruments may be obtained from state/territory OH&S regulators.

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.

Hazards

May include but not limited to:
ground stability (e.g. ground condition, recently filled trenches, slopes)
overhead hazards (e.g. powerlines, service pipes, trees, buildings etc.)
insufficient lighting
traffic (e.g. pedestrians, vehicles, plant)
environmental conditions (e.g. wind, lightning, storms, etc.)
other specific hazards (e.g. tidal areas, chainsaws, pressure washers, dangerous materials)

Hazard control measures

Refers to the systematic process of eliminating or reducing the risk to personnel and property through the application of controls
It includes the application of the hierarchy of control - the six-step preference of control measures to manage and control risk:

1. elimination
2. substitution
3. isolation
4. engineering control measures
5. using safe work practices
6. personal protective equipment

Appropriate standards

May include but not limited to:
codes of practice
legislation
Australian Standards
manufacturer's specifications
industry standards (where applicable)

Elevating work platform

The operation of 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 to perform work. Excluded from this definition are platforms of less than 11 metres boom length.

The 11 metre boom length shall be taken to mean the greater of the following:

- (a) The vertical distance from the floor of the platform to the surface supporting the elevating work platform with the platform at its maximum height; or
- (b) The nominal reach, measured horizontally from the centre point of rotation to the outer edge of the platform in its most extended position

Communication method

May include but not limited to:
verbal and non-verbal language
written instructions
signage
hand signals
listening
questioning to confirm understanding
appropriate worksite protocol

Service logbook

May include but not limited to:
any logbook
service book
history record system where the service and maintenance history is kept

Procedures

May include but not limited to:
manufacturer's guidelines (instructions, specifications, operators manual or checklists)
industry operating procedures
workplace procedures (work instructions, operating procedures, checklists)

Safety equipment

May include but not limited to:
safety harness
energy absorber
lanyard
anchor points

Safety devices

May include but not limited to:
horns/sirens
audible and visual reversing devices
operator restraint devices (platform gate)
lights (where applicable)

Communication equipment

May include but not limited to:
two-way radios
mobile phone

Ground suitability

May include but not limited to:
rough uneven ground
backfilled ground
soft soils
hard compacted soil
rock
bitumen
concrete

Stability

May include but not limited to:
deploying outriggers
establishing correct size plates or packing
correctly positioning plates or packing

Hazard prevention/control measures

May include but not limited to:
safety tags on electrical switches/isolators
insulated powerlines
safety observer used inside exclusion zone
disconnected power
traffic barricades and controls
illumination requirements
pedestrian controls
trench covers
movement of obstructions
personal protective equipment
suitable area for set-up
suitable firm and stable standing

Relevant plant movements

May include but not limited to:
raising boom
lowering boom
slewing
hinging
articulating
telescoping

Best mobile practice

May include but not limited to:
minimum speed
gentle acceleration and braking
minimum boom/jib length
avoiding ground depressions

Unplanned and/or unsafe situations

May include but not be limited to:
loss of power
failure of controls
contact with overhead electrical conductors
damage caused by contact with obstructions
illness of personnel

Shut down

May include but not limited to:
retracting boom/jib (where applicable)
folding boom/jib into the transport position
retracting outriggers/stabilisers
idling engine to stabilise temperature
turning off engine (where applicable)
removing key from ignition (where applicable)

Unit Sector(s)

Not applicable.