Trainer Value Pack



ELEVATING WORK PLATFORM SAFETY & LICENCE GUIDE

Training support material for:

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

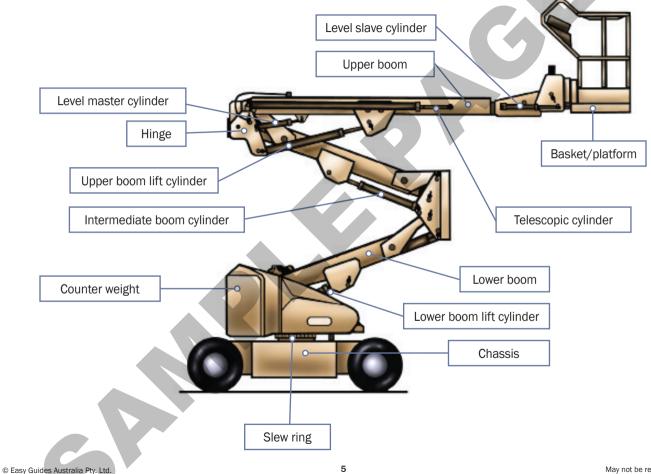
Produced by:



CONTENTS

About this guid	de	4
Introduction to	elevating work platforms	5
High risk licen	sing and the law	9
Element 1	Plan work /task	19
Element 2	Prepare for work / task	53
Element 3	Perform work / task	99
Element 4	Pack up	133

Parts of a boom-type elevating work platform



INTRODUCTION TO ELEVATING WORK PLATFORMS

PC 1.3

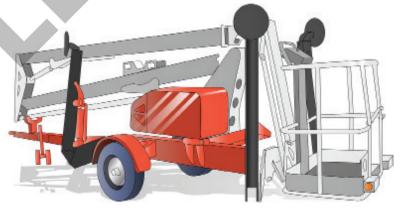
Types of EWP (continued)

Truck-mounted EWPs offer a safe and easy way of working at heights with the flexibility of quick movement between sites. There are both articulating and telescopic versions of truck mounted EWPs available.



Trailer mounted EWPs have the ability to place operators at locations that require vertical height and horizontal reach. They are available in varied sizes and can be electric or engine powered.

A key feature of trailer mounts is 'up and over reach' with the flexibility of towing the trailer lift to the job sites using your own vehicle.



PLAN WORK / TASK

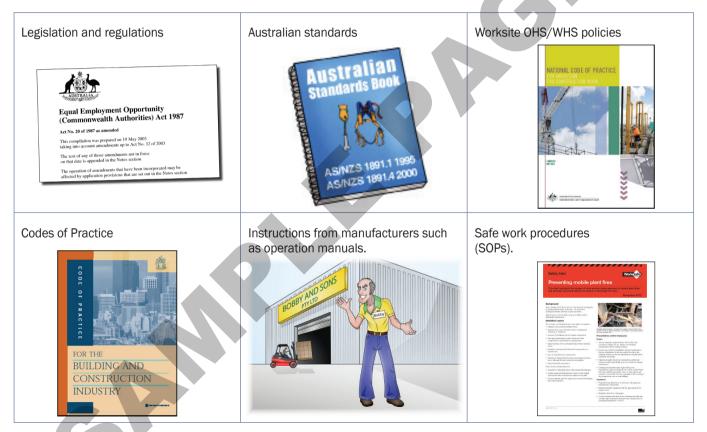


Element 1

PLAN WORK

Safety information and work procedures

You will also have to make sure you know about the safety information and procedures related to the job. Ways to find out this information include:



PC 2.13

PLAN WORK / TASK

Wind hazards

Wind is a common hazard when working on an elevating work platform. It can cause the boom to move uncontrollably, make objects fall from the platform or even make the EWP tip over.

Wind can also cause dust and debris to be blown around which can get into the operators eyes and affect vision.

If you are working and the wind speed exceeds the limit of the EWP – stop work immediately and bring the platform to the ground.

The wind speed rating of the EWP can be found by checking the data plate, operators manual or machines specifications.





PLAN WORK

Working near or over water

When working over or near water, assess the hazards and risks to decide what personal protective equipment should be worn and what control measures should be in place.

Emergency retrieval system







Wear a life jacket



Have a spotter

PC 1.1, 1.8

PLAN WORK / TASK

Other things to plan for

Other than hazards there are more things you need to plan for before you start work. For example:

You will need to check Problems or challenges on the People you need to talk Are the doorways big enough site. These might be shift times, to and communicate with. to get in and out of? the location and details movement of people etc. of the work. ROSTER 7AM-3PM 7AM-3PM 11AM-6PM 1PM-11P 3PM-11PM 3PM-11PM 2014 1108 Check you have the right You might need permits before You must make sure the EWP has enough capacity to carry the equipment for the job. you start work. weight in the basket. EASY PERMIT for WORKING SITION: FOREMAN ME: DAVID LL 250ka

PREPARE FOR WORK / TASK



Check the service logbook

The EWP logbook is used to record details of when the EWP was operated and who the operator was. Any defects that are found and servicing and repairs carried out on the EWP are also recorded. You should check the EWP's logbook to make sure it is the right logbook for the machine you are using. Check also if any defects have been reported, and if they have been fixed.

If you check the service logbook and find:

- a defect that has not been fixed
- · the EWP hasn't been tested
- the EWP does not meet Australian Standards 2550.10 You should:



PC 2.9, 1.7

PREPARE FOR WORK / TASK

Can you hear me?

QUESTION 45

Why do you need to do a full extension test on all movements of the EWP?

You need to do the test to make sure the EWP is safe to use and can fully extend without problems. You need to make sure you know what all the controls are for.

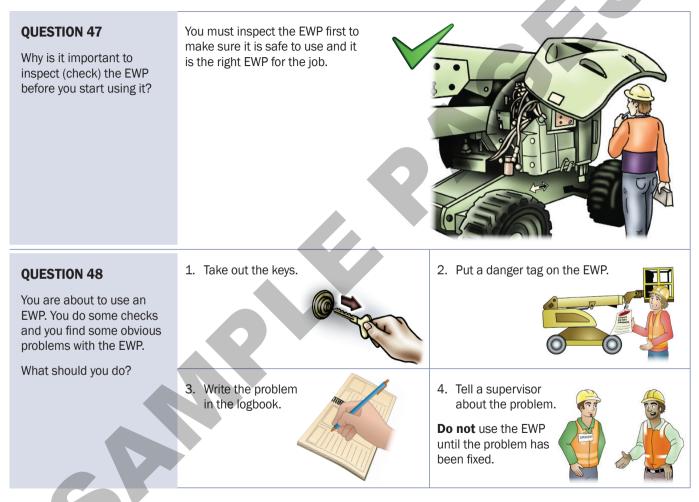


When is the right time to check that the EWP and communications equipment (for example, the radio) is working properly? You should check before you start the job. Finding out later that the equipment is not working can cause an accident.

Testing

PC 2.5, 2.9

PREPARE FOR WORK / TASK

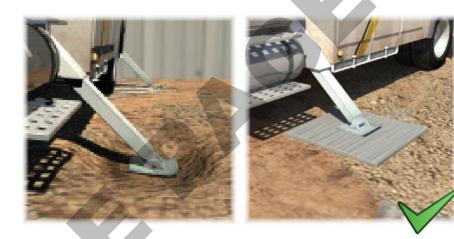


PREPARE FOR WORK / TASK

Outrigger hazard controls

If you have set up the work platform, but one of the outriggers starts to sink you must stop immediately and lower the basket to the ground.

Fix the sinking problem by stabilising the ground with packing.



If you cannot fix the ground conditions, move the EWP to another spot where the ground is more stable.



PC 1.2, 1.4

PREPARE FOR WORK / TASK

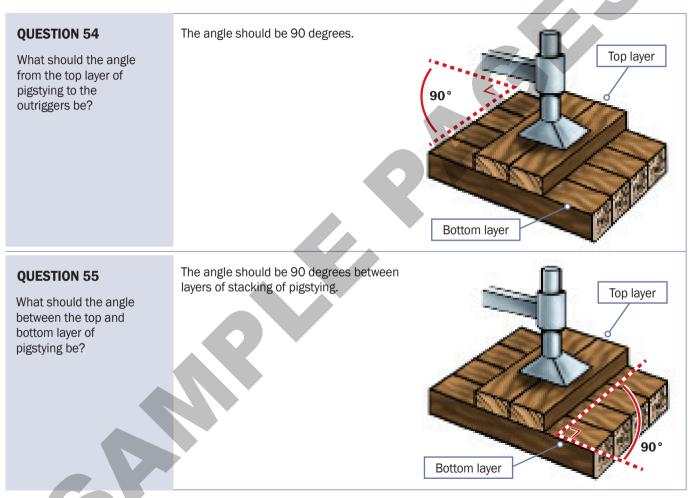
Planning the path of movement (continued)

When you move the boom, watch for things like trees, powerlines or any other obstructions.



Whenever you are moving the EWP itself, or the boom of the EWP, you need to think about all hazards and all

PREPARE FOR WORK / TASK



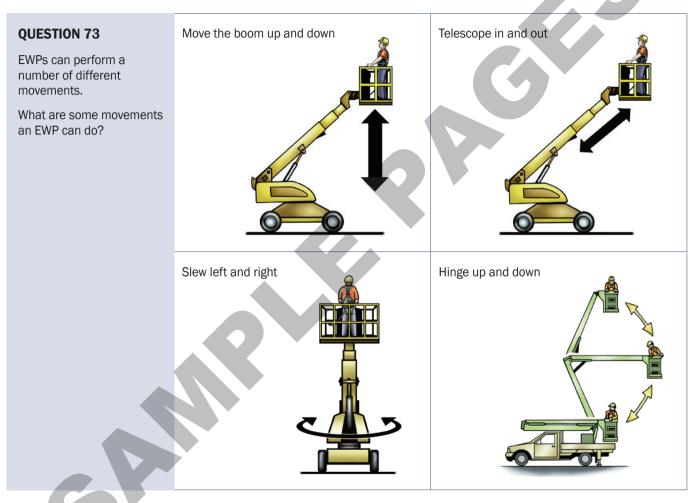
PERFORM WORK / TASK

Element 3



PC 2.10

PERFORM WORK / TASK



PERFORM WORK / TASK

OUESTION 77

You and another worker are about to start a job.

- You will be using an EWP with a Working Load Limit (WLL) of 250 kg
- You weigh 85 kg and your workmate weighs 95 kg
- You also need to carry tools and parts

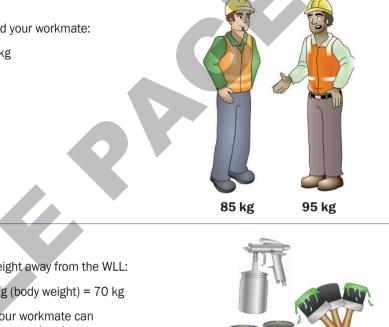
What is the most (in kilograms) your tools and parts can weigh?



Step 1:

Body weight of you and your workmate:

85 kg + 95 kg = 180 kg



Step 2:

Take the total body weight away from the WLL:

250 kg(WLL) - 180 kg(body weight) = 70 kg

This means you and your workmate can carry up to 70 kg of parts and tools.



PERFORM WORK / TASK

Mobiling the EWP

When mobiling the EWP, the safest position for the basket and boom is lowered and retracted. This gives the EWP maximum stability.

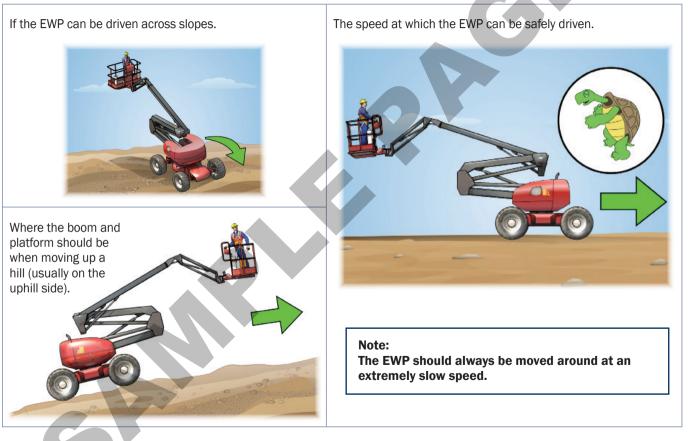
Always check that the EWP's warning devices are working before you move.



PERFORM WORK / TASK

Mobiling the EWP (continued)

Always check the manufacturer's instructions before moving any self-propelled EWP. These instructions will tell you:



PC 2.8

PERFORM WORK / TASK

QUESTION 82

You are mobiling (driving) a self-propelled EWP. The basket is raised in the air.

What is the safest speed?

The safest speed is creep speed (very, very slow), or the speed the manufacturer says is safe.



QUESTION 83

You have to mobile (move) an EWP across a slope or hill.

How will you do this?

This is very dangerous and should be avoided. Check your EWP operator manual for more information.





PC 3.1

PERFORM WORK / TASK

QUESTION 84

What's the best position for the basket when mobiling (moving) the EWP? The basket should be lowered and the boom retracted. The EWP will be more stable.

Retracted boom

QUESTION 85

Why is it not safe to raise or lower the boom over people.

The people under the boom may be out of sight and can be badly hurt or killed.



PERFORM WORK / TASK

Emergency lowering devices

If the motor cuts out while you are working, you will need to lower the work platform.

How you do this will depend on the type of platform you are using.

Older work platforms have a hydraulic accumulator. These give the hydraulics enough pressure to slew and lower the platform.

Newer EWPs often have a battery operated electro-hydraulic lowering device for emergencies. This allows you to lower the platform when the motor has stopped.

If these mechanisms fail, you may need to lower the platform using hydraulic bleed valves, or pump down mechanisms. **MIN NEUE** SUT **NOOM** TO BE USED CINEY OF DAMAGE AND LES PORTE PARTY **A CAL** OPERATION TO LOSSIE BOOM PARTING VIEW AND 10.000 NICHT TO LOWER BOOM AND THE R. LEW CONTRACTOR OF THE OWNER. C.C.W. AND US 10.00

PC 3.6

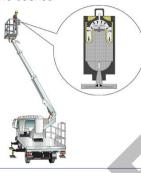
PERFORM WORK / TASK

QUESTION 93

You are working high off the ground. The EWP's engine stops.

What will you do?

For an older (truck-mounted) EWP use the hydraulic accumulator to lower the basket.



For a newer EWP use the electro-hydraulic emergency lowering device.

If nothing else works, ask someone on the ground to use the hydraulic bleed valves, or pump down mechanisms.



QUESTION 94

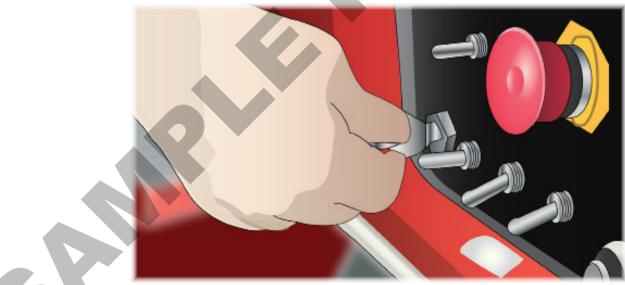
When is it okay to use the dead man control to stop the EWP from moving?

You can only do this in an emergency. The dead man control is not a normal operating control.



PACK UP

Element 4



PC 4.2, 4.4

PACK UP

61

Locking device

Strap boom down

JUUL

QUESTION 102

Why do you need to use the locks and brakes on an EWP when you have finished a job? Use locks and brakes to hold the boom in place and make it safe for travel. The operator's manual will have information on how to do this.

PC 4.1

PACK UP

QUESTION 109

You have finished using the EWP. You do your post-operational checks.

What do you have to do if you find a problem or fault?

1. Take out the keys.



3. Write the problem in the logbook.

ATTO



4. Tell a supervisor about the problem.



ELEVATING WORK PLATFORM

TLILIC0005

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



www.easyguides.com.au

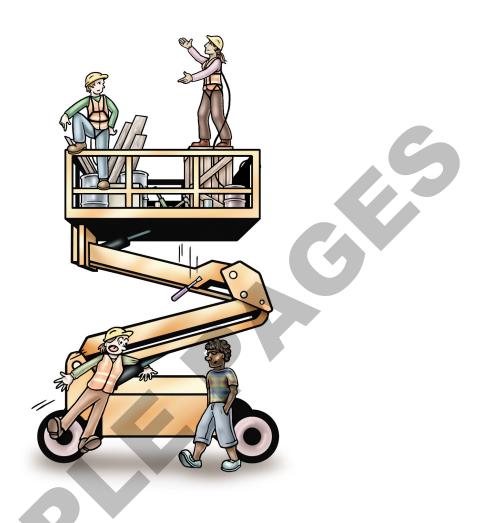
National Licence RTO-VET Learning Materials

Contents

Language – Literacy – Numeracy (LLN)	
How to get the most out of this book	5
Things to consider when learning	6
Learning support materials	
Learning and practical tasks	
What is a boom-type elevating work platform?	
Introduction to high risk licensing	11
New National Vocational Education and Training (VET) licensing pathway	12
Training and assessment requirements	
Record of training logbook	
Who has a duty of care?	15
Where to find licensing information	
Introductory training exercise	18
Chapter 1—Plan Work	
Practical Task 1	
Practical Task 2	40
Chapter 2-Conduct Routine Checks	43
Practical Task 3	59
Chapter 3—Set up Elevating Work Platform	63
Practical Task 4	
Chapter 4–Operate Elevating Work Platform	
Practical Task 5	
Chapter 5—Shut Down and Secure Elevating Work Platform	89
Practical Task 6	
Thank you	٥7
Continuous improvement form	









Look at the picture above. Can you list the dangerous work practices that are taking place with this EWP?

Performance Criterion: 1.3 Choosing the right EWP

There are different types of elevating work platforms (EWPs). Depending on the work and the location you will select and use a certain type of EWP. It's important to make sure the EWP is suited to the job and the conditions.



Performance Criterion: 1.7, 1.8 Communication

There are many ways you can get and give instructions when using an EWP. How you get and give instructions to other workers depends on where you are and if you can see other workers (or they can see you).

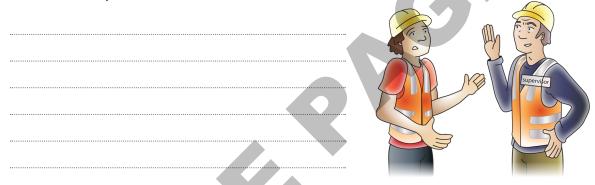




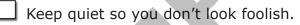
Theory Training Task 19

Performance Criterion: 1.7, 1.8, 2.1

a) List at least three (3) ways you might have instructions given to you in the workplace.



b) You have been given instructions for your next job by your supervisor. You didn't understand everything he said. What should you do? Tick the correct answer.



Ask him to clarify the parts you didn't understand so you can do your job safely.

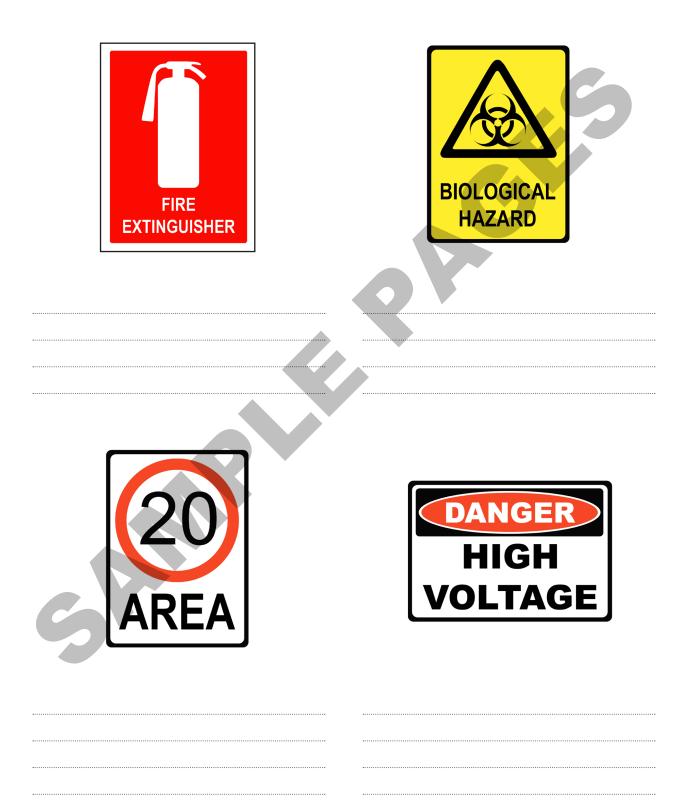
Attempt to do the job anyway so that you don't make him mad.

c) A workmate makes gestures at you using his hands when you are working with an EWP. You don't know what they mean. What do you do?





Look at the following signs. Explain what each sign means.



Practical Training Task 1 Chapter 1—Plan Work Performance Criteria 1.1, 1.5, 2.2, 3.1

Plan Work

Learners: You **must** do this task under the **control of a licensed EWP operator**. Please wait for your trainer to advise you before trying the task.



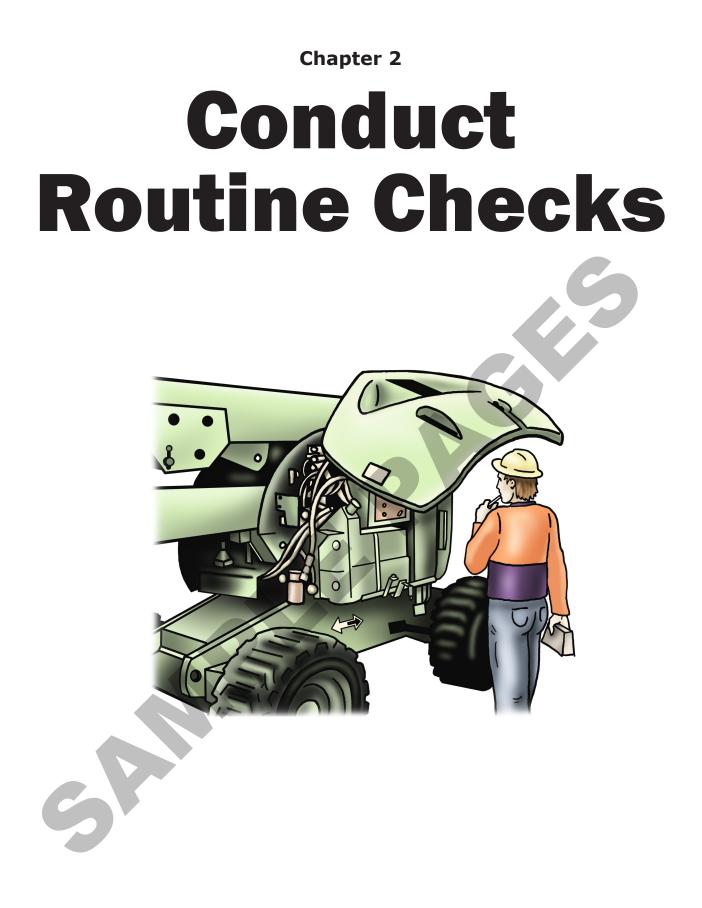
- 1. Your trainer will take you to an area where you will use an elevating work platform (EWP).
- 2. Your trainer will select a basic task for you to planfor example, moving an EWP.
- 3. Your trainer will help you fill out a safe work method statement (SWMS) showing how you did the planning to move your EWP.

When you fill out the SWMS make sure:

- Possible workplace hazards are identified. This means you need to know (identify) workplace hazards before you start work. Look for hazards. Look above you, look around you, and check the ground below you.
- Hazard control measures are identified consistent with appropriate standards to make sure the safety of personnel and equipment. This means you act to control or prevent a danger that can injure or hurt you. You use the actions to do away with or to reduce risk to workmates and property. Take the actions before you start the task.
- Elevating work platform is appropriate for the task. This means there are different types of elevating work platforms (EWPs). Depending on the work and the location you will select and use a certain type of EWP. It's important to make sure the EWP is suited to the job and the conditions.
- Appropriate communication methods are identified. This means there are many ways you can get and give instructions when using an EWP. How you get and give instructions to other workers depends on where you are and if you can see other workers (or they can see you).

Now fill out your SWMS (see over). After you finish your SWMS, your trainer will check you have done all the planning you needed to do. The licensed operator/trainer will then sign and date the box below.

Chapter 1: Satisfactory Not yet satisfactory]
Signature (licensed operator/trainer)	Date



Performance Criterion: 2.12 Check the EWP service logbook

Before using an EWP, you must test and check it. Check the service logbook/daily inspection checklist before you use the EWP.





Theory Training Task 21

Performance Criterion: 2.12

Tick the correct statements:

- a) Where would you find the service logbook/ daily inspection checklist?
 - Near the motor
 - ___ In the cab of the truck
 - In a yellow pouch in the basket
 - Next to the start-up controls



b) What is the main purpose of a service logbook/daily inspection checklist?



Before using an EWP:

- There is no need to check the logbook for previous damage or defects as they don't concern you.
- You should always check previous logbook entries to make sure the EWP is in good working order and all defects have been attended to.
- It is up to the person that uses the EWP after you to check all logbook entries.

Performance Criterion: 2.6, 2.9, 2.10, 2.11 Conduct pre-start operational checks

Once you have done a visual check of the EWP you should do a thorough pre-start operational check. The purpose of a pre-operational check is to make sure the EWP is safe to use. You may find a simple problem or something more serious. Different workplaces may use different forms or systems to check an EWP. For example, a daily inspection checklist shows you what you must check on the EWP before you use it.

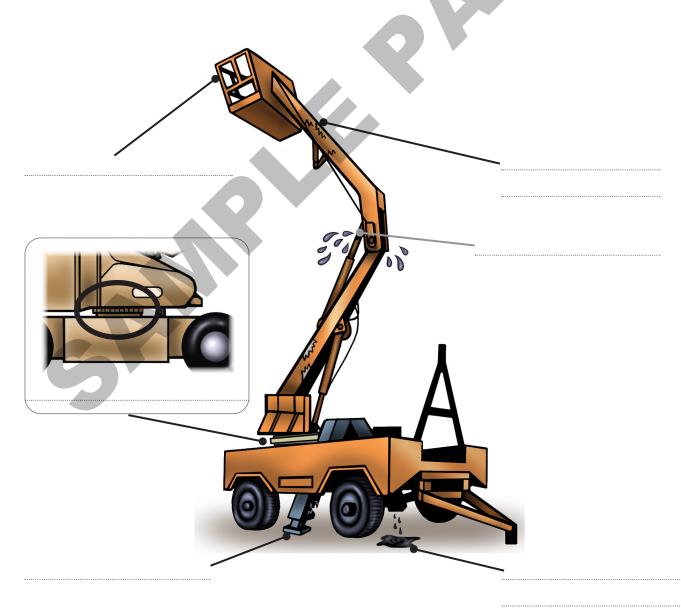




Theory Training Task 24

Performance Criterion: 2.6, 2.9, 2.11

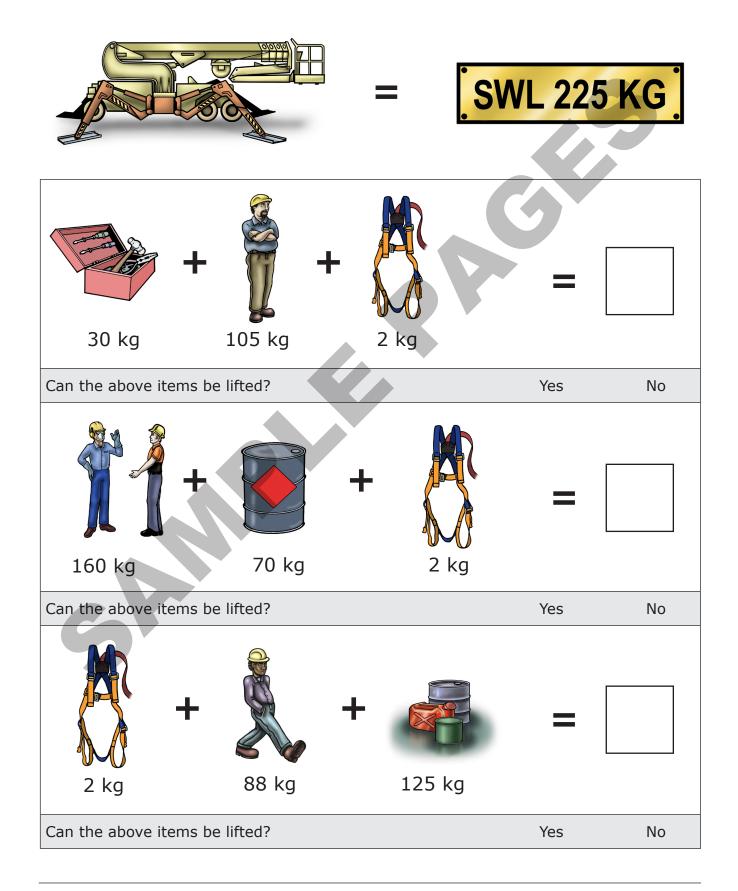
Label the checks you should complete on the chassis/boom of an EWP.





Performance Criterion: 3.3, 3.4

Calculate the total weight of the safety gear, tools and people below to see if they can be safely lifted in the EWP shown below.



Mapping

TLILIC0005 Licence to operate a boom-type elevating work platform

(boom length 11 metres or more)



The information and questions contained in the learner guide and PowerPoint presentation have been mapped to the elements, performance criteria, and knowledge evidence for the unit of competency TLILIC0005 Licence to operate a boom-type elevating elevating work platform (boom length 11 metres or more).

Elements and performance criteria

Element 1	Performance Criteria	Learner guide and PowerPoint
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	 Question 2, 9, 10, 13, 21 Introductions to elevating work platforms: Plan work /task Safety information and work procedures Work plan Job order Other things to plan for
	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	 Prepare for work / task: Outrigger hazard controls Check the ground Soil conditions Driving the EWP to the work area Packing Question 13, 17, 21, 51, 52, 53, 55, 56, 57, 58, 63
	1.3 EWP capabilities are established for the load/s and work/task requirements in accordance with manufacturer requirements and workplace procedures	 Plan work / task – Working load limit (WLL) Prepare for work / task: Loads and Forces Question 22, 23, 72, 77, 78
	1.4 Appropriate paths for operating the EWP and moving in work area are assessed and determined in accordance with workplace procedures	 Question 53, 59, 61, 69, 82 Prepare for work / task: Drive and position the EWP Perform work / task: Mobiling the EWP.
	1.5 Relevant hazard and risk control measures are applied and advised to relevant person/s in accordance with workplace procedures	 Question 9, 11, 12, 16, 17, 18, 67 Plan work – How to remember the Hierarchy of Hazard Control

2.5 Pre-start EWP checks are carried out in accordance with manufacturers requirements and safe work procedures	 Prepare for work / task: EWP faults Question 20, 31, 33, 34, 35, 36, 37, 38, 48, 49
2.6 EWP is started and is checked for any abnormal noises in accordance safe work procedures	Question 91
2.7 EWP is positioned correctly as per work plan in work area in accordance with relevant manufacturer requirements and safe work procedures	• Question 62, 81
2.8 EWP is stabilised appropriately in accordance with the workplan, relevant manufacturer requirements and safe work procedures	• Question 62, 83, 84
2.9 Operational checks from base controls are carried out in accordance with relevant manufacturer requirements and safe work procedures	• Question 41, 43, 45, 46, 48, 79
2.10 All platform controls are located, identified and tested in accordance with manufacturer requirements and safe work procedures	• Question 26, 45, 74
2.11 All damage and defects are reported and appropriate action is taken to rectify in accordance with manufacturer requirements and safe work procedures	 Question 26, 27, 28, 49, 50, 109 Prepare for work / task: Check the service logbook
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	• Question 26, 27, 29, 30
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	 Plan work / task – Wind hazards Question 14, 76, 80



Element 3	Performance Criteria	Learner guide and PowerPoint
Perform work / task	3.1 Relevant hazard prevention/control measures identified are checked for implementation in accordance with safe work procedures	 Question 18, 31, 54, 71, 73, 85, 86, 98 Plan work / task– How to remember the Hierarchy of Hazard Control Prepare for work / task: Loads and Forces
	3.2 EWP is safely located at point of work in work area in accordance with safe work procedures	 Prepare for work / task: Driving the EWP to the work area Question 53
	3.3 EWP platform is positioned for work tasks and stability and all operations are monitored constantly in accordance with safe work procedures	• Question 75, 88, 100, 101
	3.4 Work gear and tools are stowed and secured in accordance with safe work procedures	• Question 73, 106, 108
	3.5 EWP is operated using all movements in accordance with safe work procedures and manufacturer requirements	Question 42
	3.6 Unplanned and unsafe situations are responded to in accordance with safe work procedures	 Question 44, 50, 87, 90, 91, 92, 93, 94, 95, 96, 97, 99 Perform work / task: Emergency lowering devices
	3.7 All communication signals are correctly interpreted and followed whilst EWP is operated in accordance with safe work procedures	Question 24
	3.8 EWP platform is accessed and egressed in accordance with safe work procedures and manufacturer requirements	Question 105