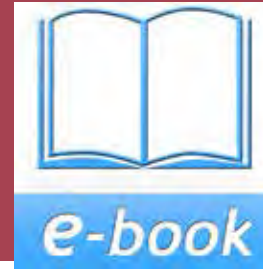


NON-SLEWING MOBILE CRANE SAFETY AND LICENCE GUIDE



TLILIC0018
**Licence to operate a
non-slewing mobile crane**
(Greater than 3 tonnes capacity)



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About this guide

The guide is a follow-up to your formal training.

Like all Easy Guides, this one uses plain words and pictures to help you remember what you learned in your formal training. So you can pass your test – and get your licence.

Good luck from the team at Easy Guides Australia Pty Ltd.

Note: This guide does not use the same wording as the Safe Work Australia Assessment Instrument. This Instrument cannot be shown to the learner before the test.

Easy Guides training materials have been developed around Language – Literacy – Numeracy (LLN) principles.



How to use this guide

Use it in hard copy

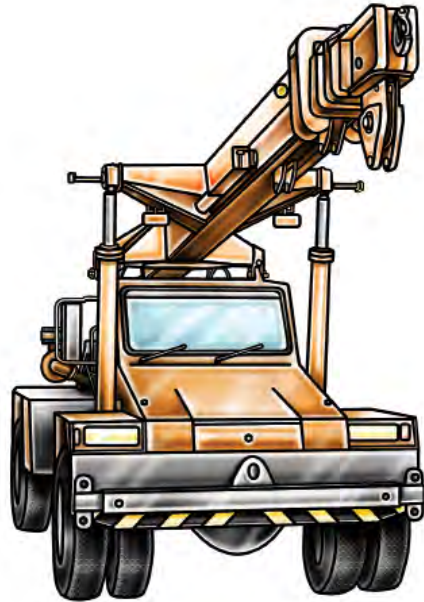
This guide helps you prepare for the test at the end of the course. Study it carefully, and then ask a friend to help you practise. They can ask you each question, and then you give the answer. Writing down the answers can also help you remember them. This also helps you see what you still need to learn. Good luck!

Or use it on screen

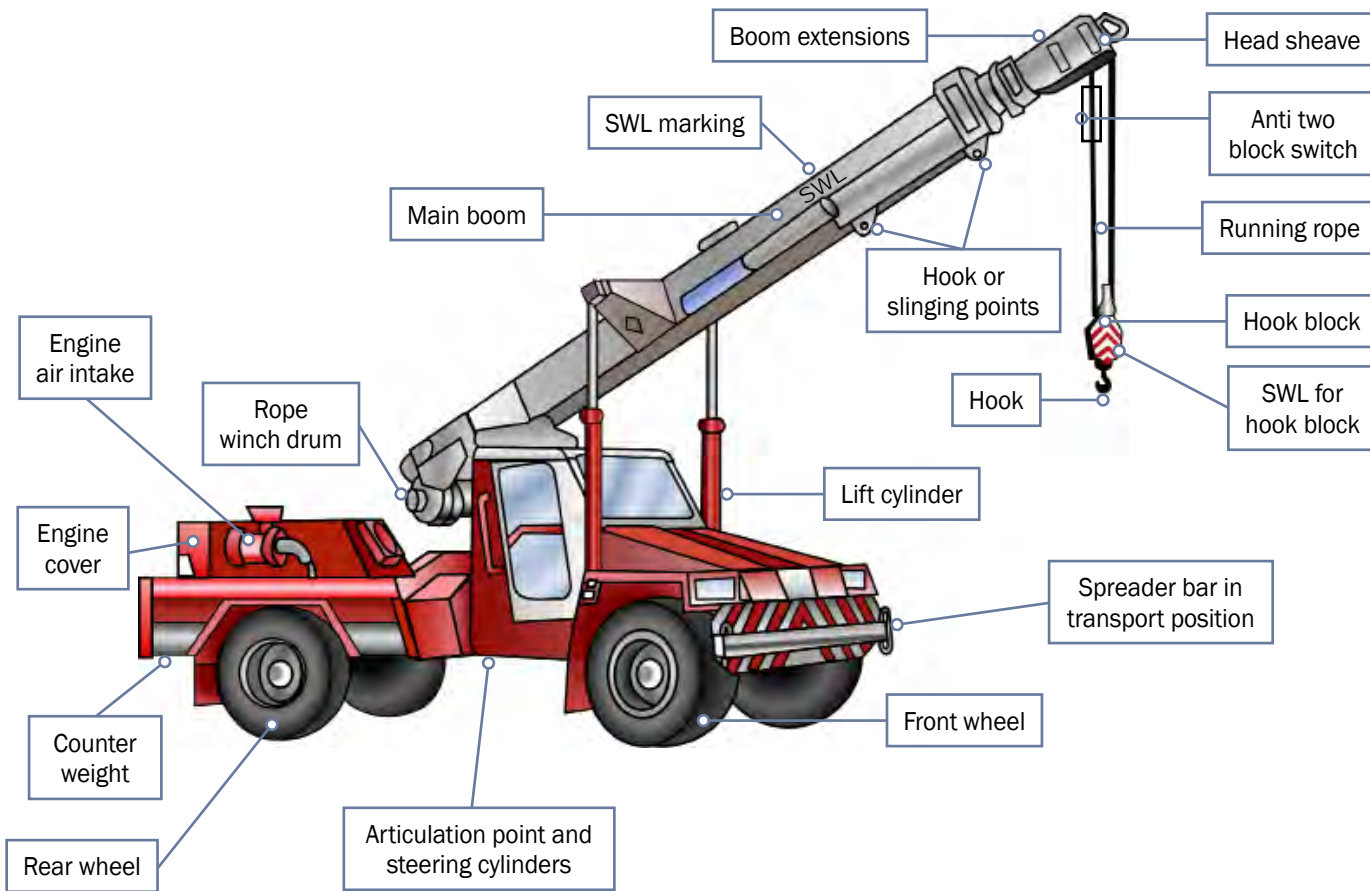
This guide also comes in a multimedia presentation, so you can use it on your computer or screen. The multimedia presentation is just like the guide and has exactly the same questions with the same short words and easy-to-understand pictures.

Trainers can use the multimedia presentation in class to help learners discuss questions. The trainer first shows the question and asks if anyone knows the answer. Next, the trainer will show the answer and discuss it with the learners.

INTRODUCTION TO NON-SLEWING MOBILE



Parts of a non-slewing crane



PREPARE FOR WORK / TASK

Element 2



Preparing for the lift

This section covers the steps you will take when it is time to implement the lift plan.

Including:

Talking with other workplace personnel to ensure lift plan is clear and understood

Assessing weather and work environment conditions

Putting in place all risk control measures for identified hazards (dangers)

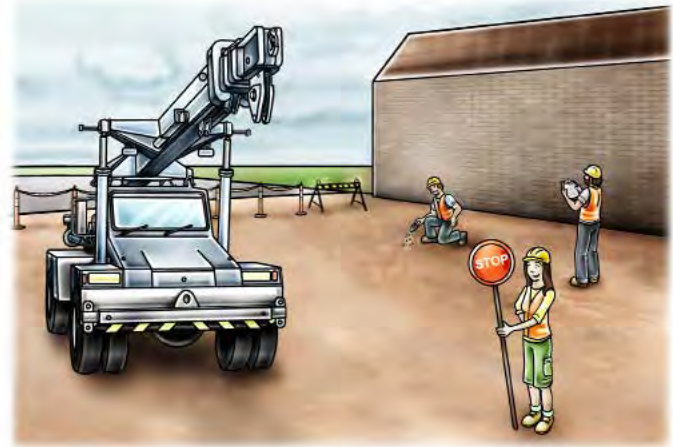
Conducting pre-operational and operational checks on all equipment

Checking the crane logbook for compliance

Calculating load weight and working load limit (WLL)

Checking the suitability of the load destination

Setting up the crane for the task



QUESTION 102

What happens to the WLL when the fly jib is stowed on the main boom section?

The WLL is reduced (lowered).

Load chart

LOAD CHART 'S'

60 TONNE TRUCK MOUNTED HYDRAULIC MOBILE CRANE

THIS CHART IS VALID ONLY WHEN THE CRANE IS USED IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED WITH THIS CHART

CRANE LIFTING CAPACITY

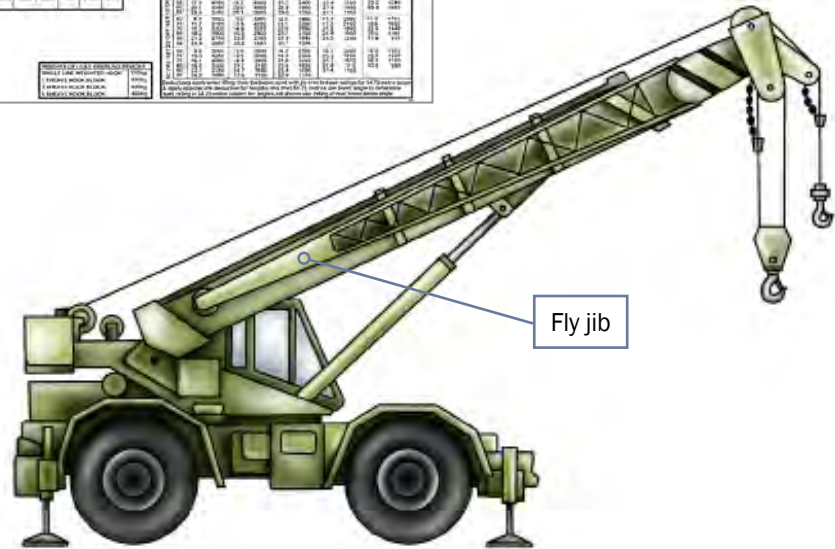
LIFTING CAPACITY (TONNES)	30°		45°		60°		75°		90°		105°		120°	
	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL
20	20	15	10	5	4	3	2	1.5	1	0.8	0.6	0.4	0.3	0.2
30	30	22	15	8	6	4	3	2	1.5	1	0.8	0.6	0.4	0.3
40	40	28	18	10	7	5	3.5	2.5	1.8	1.2	0.9	0.7	0.5	0.4
50	50	34	22	12	8	6	4	3	2	1.5	1	0.8	0.6	0.4
60	60	40	26	14	9	7	5	3.5	2.5	1.8	1.2	0.9	0.7	0.5

MAXIMUM WIND SPEEDS (M/S)

LIFTING CAPACITY (TONNES)	30°	45°	60°	75°	90°	105°	120°
20	10	8	6	5	4	3	2
30	10	8	6	5	4	3	2
40	10	8	6	5	4	3	2
50	10	8	6	5	4	3	2
60	10	8	6	5	4	3	2

NOTES:

- WIND SPEEDS ARE GIVEN IN METRES PER SECOND.
- WIND SPEEDS ARE GIVEN AT CRANE HEIGHT.
- WIND SPEEDS ARE GIVEN AT CRANE HEIGHT.
- WIND SPEEDS ARE GIVEN AT CRANE HEIGHT.



PERFORM WORK / TASK

Element 3



Performing the lift

This section is about how to do (perform) a lift

Including:

Checking lift equipment for and damage or signs of wear.

Safe crane set up and operation

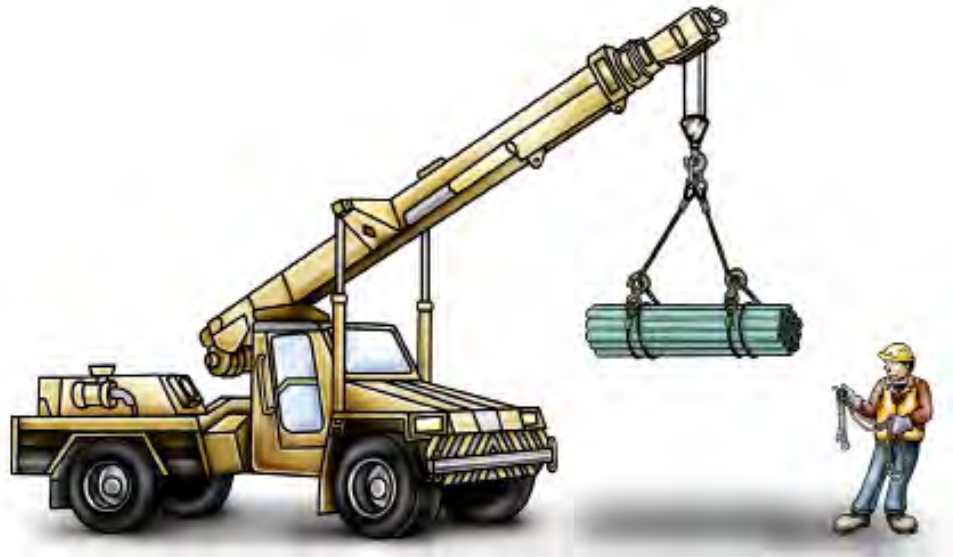
Positioning the hoist block and boom/

Checking the planned route

Test lifts

Moving and watching the load

Responding to unsafe situations



QUESTION 113

How do we determine what loads must be performed?

We look at the lift plan.

How else can we determine the rated capacity of a crane?

We can look at the load chart.

Lift Plan

1. Project Details:		Version No:			
Candidate Name:		Site Pick up address:			
Operator Contact Details / Supervisor:		Site Drop off address:			
Crane make / model:		Crane ID:			
Lift 1 Description					
Lift 2 Description					
Lift 3 Description					
Lift 4 Description					
Item Details		Lift 3	Lift 2	Lift 3	Lift 4
Weight of load	kg	kg	kg	kg	kg
Weight of rigging	kg	kg	kg	kg	kg
Weight of hoists	kg	kg	kg	kg	kg
Additional weights	kg	kg	kg	kg	kg



Travel with load, forward

The following is some information that you might find in a **lift plan**.

- **Load 1.** a load of >50% of the RC of the crane with a boom length of >75%, and
- **Load 2.** a round load with a minimum diameter of 300 mm and minimum length of three m that requires a dogger to sling, and
- **Load 3.** an asymmetrical load that requires a dogger to sling, and
- **Load 4.** travelling with a load of stillage containing at least ten scaffolding standards or containing a load of steel pipes of equivalent weight that requires a dogger to sling and a boom length of <75%



asymmetrical load

