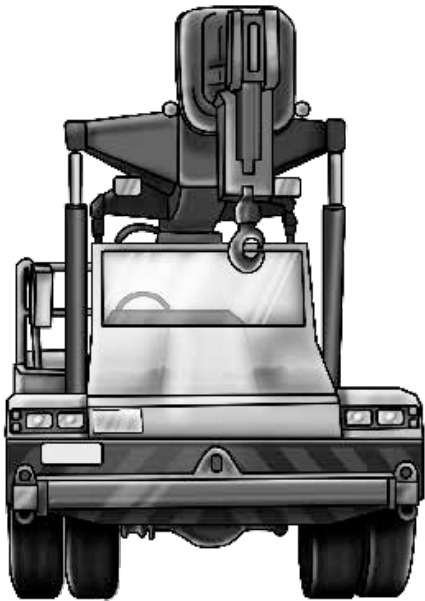


NON-SLEWING MOBILE CRANE SAFETY AND LICENCE GUIDE



Training support material for:

TLILIC0018

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

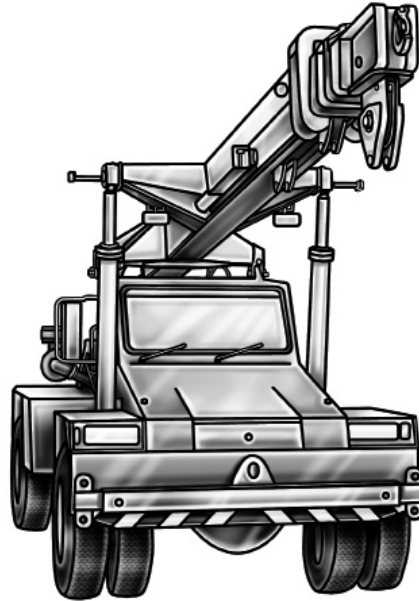
Produced by:



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INTRODUCTION TO NON-SLEWING MOBILE

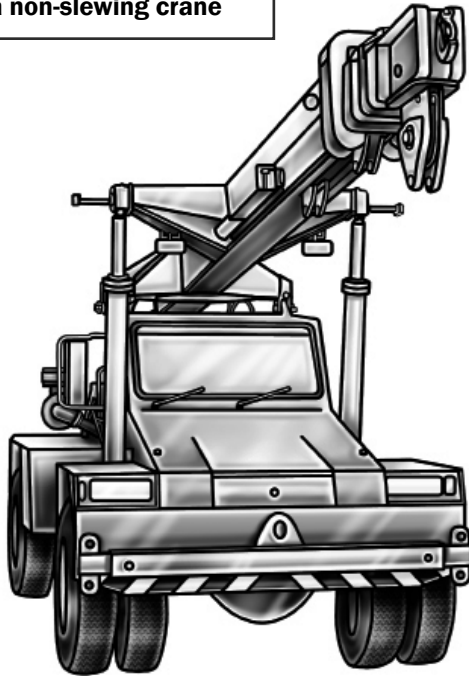


What is a non-slewing mobile crane?

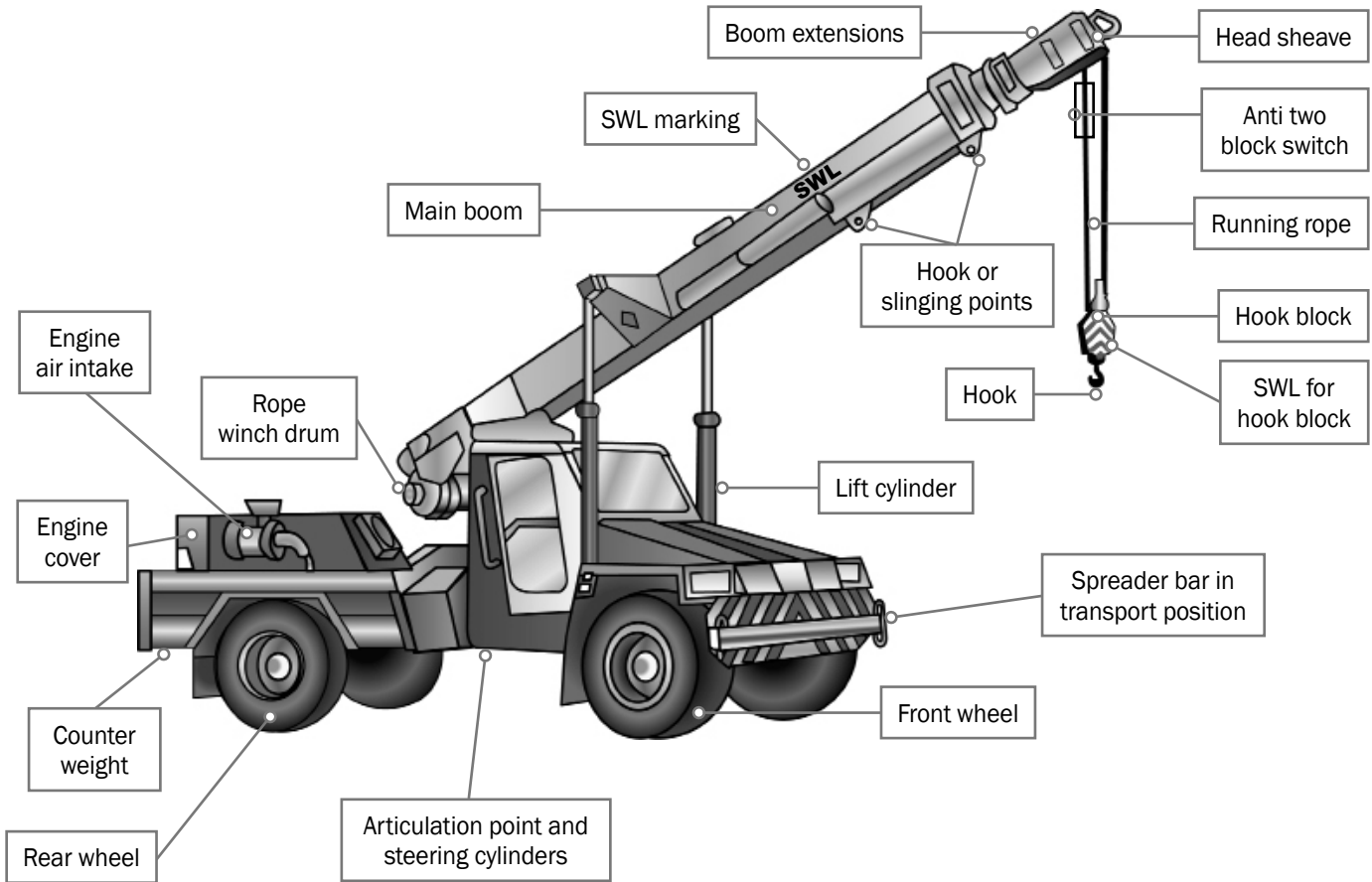
A non-slewing mobile crane is a powered crane which features a boom or jib that does not slew.

The boom can only luff up and down and telescope in and out. The crane is mounted on a vehicle.

In some states a telescopic handler is classed as a non-slewing crane



Parts of a non-slewing crane



PREPARE FOR WORK / TASK

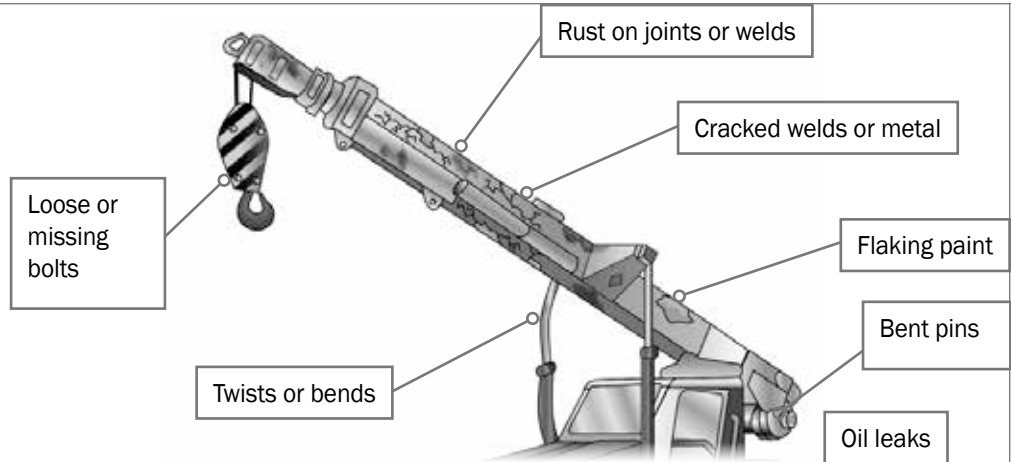
Element 2



QUESTION 47

You are inspecting the crane.

What are some defects you should look for on the boom or superstructure?



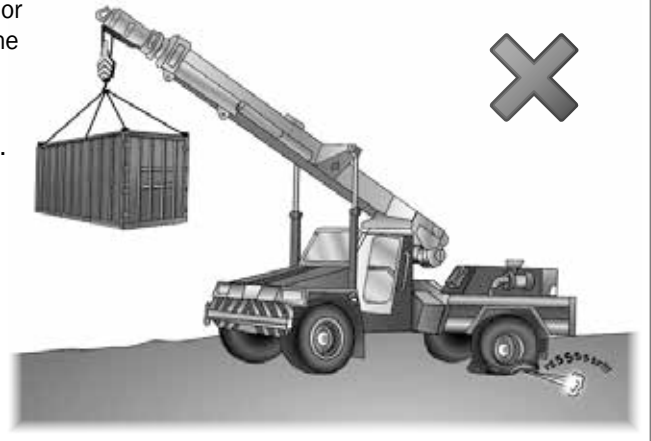
QUESTION 48

You are using a rubber tyre crane. Your crane's tyres must be at the right pressure.

Why is this important?

Tyres that are low in pressure, flat or at different pressures can make the crane unstable.

Check the load chart to find the correct tyre pressure for the crane.

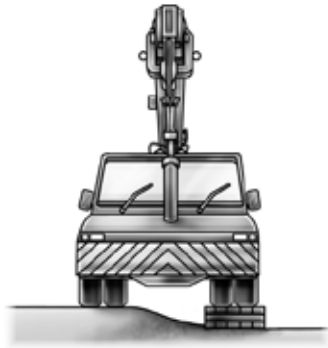


QUESTION 49

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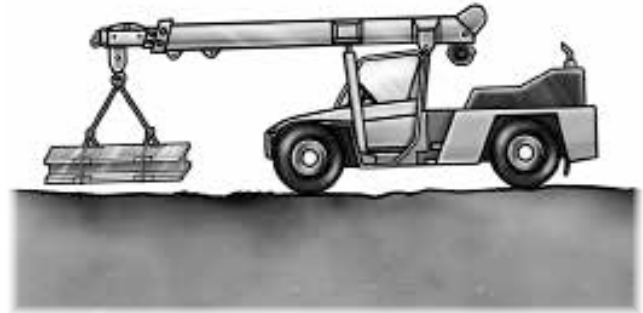
You have some lifting jobs to do.

What kinds of things should you think about and plan for to do the job safely?



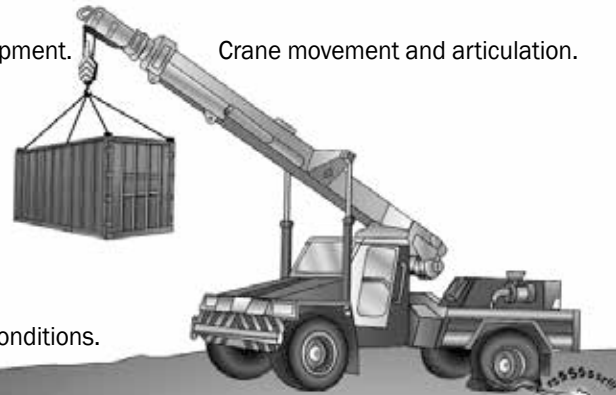
Side slopes

Crane movement and articulation.



Correct lifting equipment.

Crane movement and articulation.



Ground conditions.

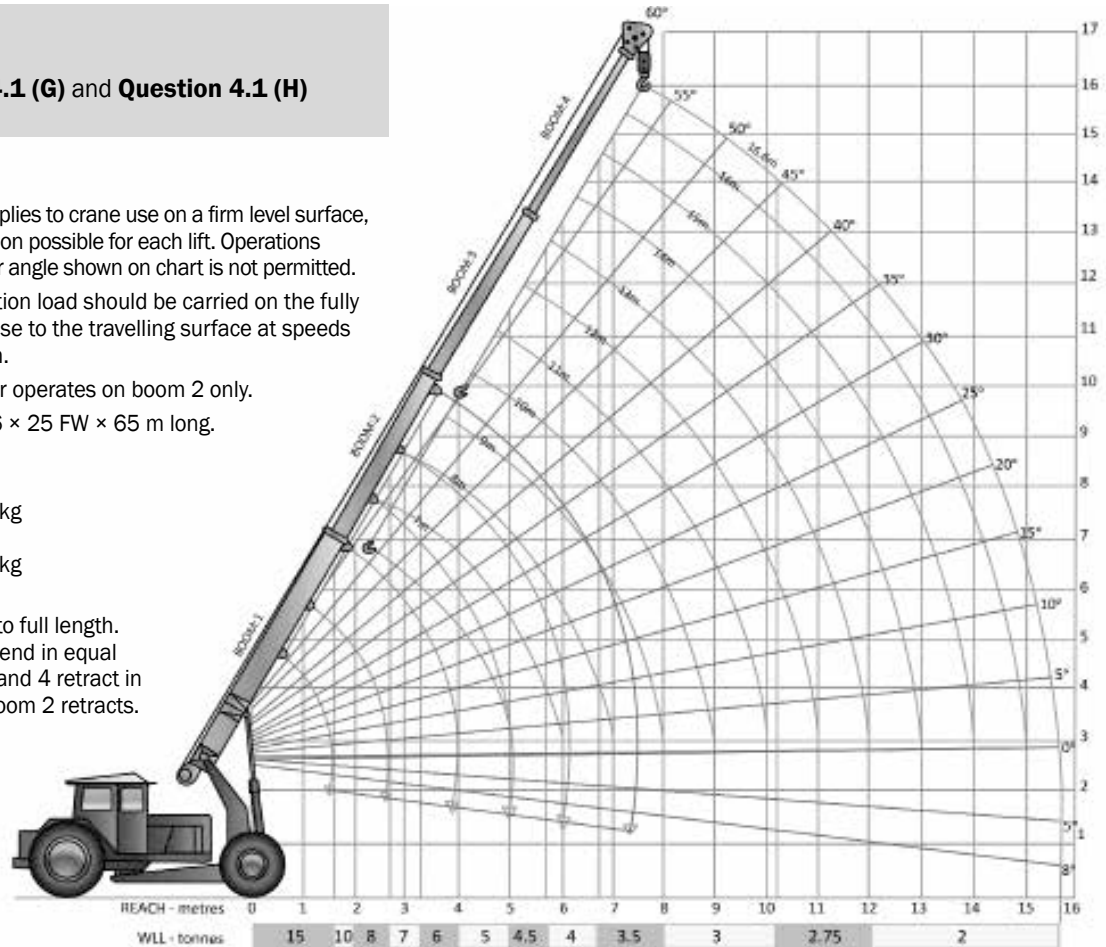
Tyre pressure

Load chart

Use for – **Question 4.1 (G)** and **Question 4.1 (H)**

Load chart 'CN'

1. This load rating chart applies to crane use on a firm level surface, using largest boom section possible for each lift. Operations outside limits of reach or angle shown on chart is not permitted.
2. For lift and carry operation load should be carried on the fully retracted boom and close to the travelling surface at speeds not in excess of 3 km/h.
3. Hoist rope compensator operates on boom 2 only.
4. Rope fitted is 13 mm, 6 × 25 FW × 65 m long.
5. Hook block capacities
2 falls – 4000 kg
Hook block mass – 65 kg
4 falls – 6000 kg
Hook block mass – 85 kg
6. Boom operating mode
Out – boom 2 extends to full length. Then boom 3 and 4 extend in equal amounts. In – boom 3 and 4 retract in equal amounts, then boom 2 retracts.
7. Tyre pressure
Front – 690 kpa
Rear – 220 kpa
8. Rear tyres water ballasted. Maintain correct level.

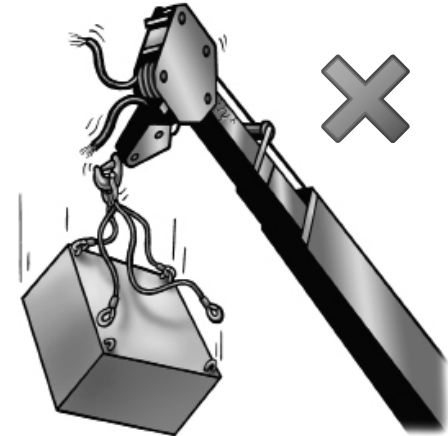


QUESTION 74

Why do you need to check the hoist limit?

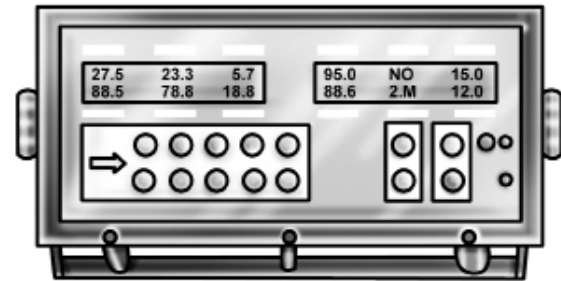
If the hoist limit switch/cut-out stops working, double blocking can occur.

Double blocking is when the hook block hits the head sheaves. This can damage the crane.

**QUESTION 75**

How often do you need to calibrate (tune, adjust) the load mass indicator?

You should calibrate the load mass indicator every 6 months or less.



Note: Always check the instructions from the manufacturer