

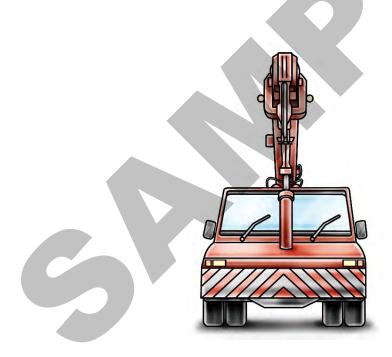
### Learner Workbook

(Formative assessment)

### **STUDENT COPY**

TLILIC0040 -

Licence to operate a non-slewing crane (greater than 3 tonnes capacity)



This resource was developed by:





Learner Name:	
Student Number:	Date:

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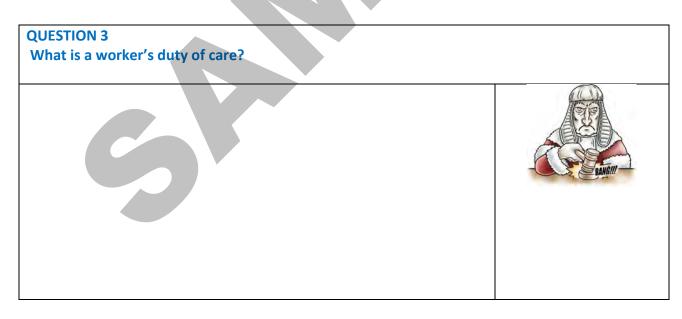
### **Knowledge Assessment**



### HIGH RISK WORK LICENSING AND THE LAW

QUESTION 1 What is duty of care?	
	BANGII





You can be punished (penalised) for not doing high risk licence work safely. There are a number of things that a health and safety regulator (e.g. WorkSafe / WorkCover) can do. What might the punishment be?



### **QUESTION 8**

You have just got your High Risk Work Licence. What should you employer do BEFORE you use a non-slewing crane you are not familiar with?



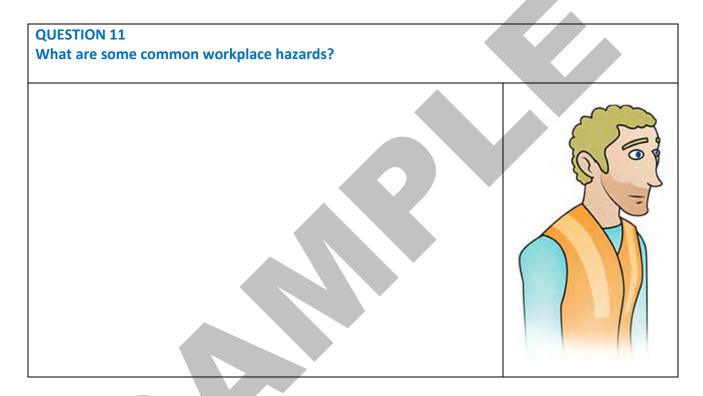
### **PLAN WORK / TASK**

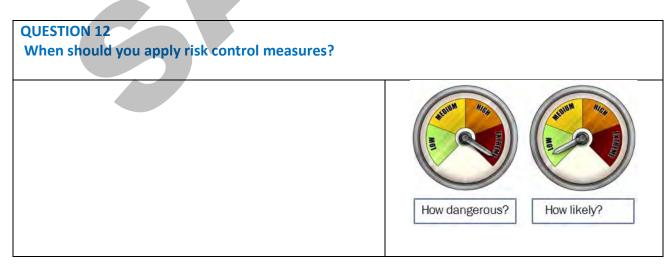
### **QUESTION 9**

What is the difference between a hazard and a risk?



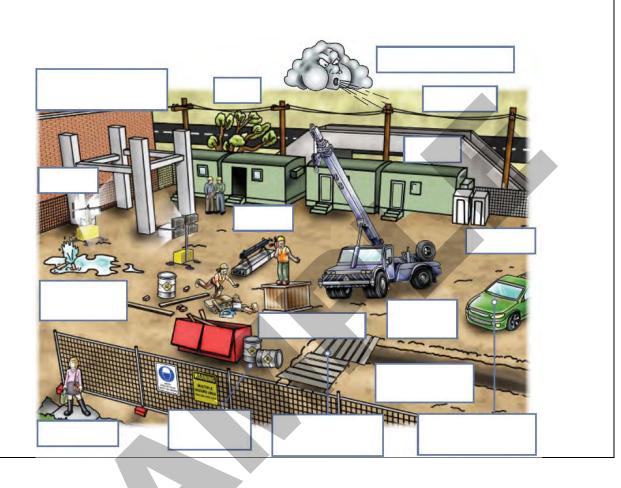
## QUESTION 10 What is a traffic management plan?





You have arrived on site and you are about to start using the crane. There are hazards (dangers) you might run into when using the crane.

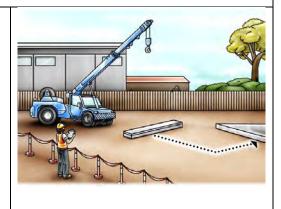
What are some examples of hazards that you must plan for?



### **QUESTION 16**

You've already planned for site hazards.

What other things do you plan for before using the crane?

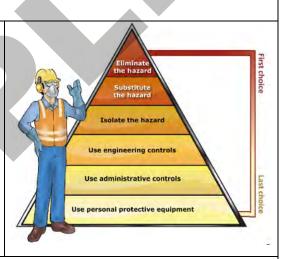


Why do you need to check with local authorities before you start work?



### **QUESTION 18**

What is the Hierarchy of hazard control?



QUESTION 19. Name some common items of Personal Protective Equipment (PPE)?





### **QUESTION 20**

You are working near powerlines. Working near powerlines is very dangerous and can kill you.

What are the minimum safe distance rules you must follow?



Who could you talk to if you need to find out the voltage of overhead powerlines?



### **QUESTION 22**

What are some ways you can work closer to electric power lines than the minimum distances allowed?



QUESTION 23. What are some ways of showing there are powerlines overhead?

What is the minimum diameter (thinnest) non-conductive rope you can use as a tagline? What does it need to be made of?



### QUESTION 27

What hazards (dangers) are there if you work near (the radius) of the outriggers or chassis of a non-slewing crane?



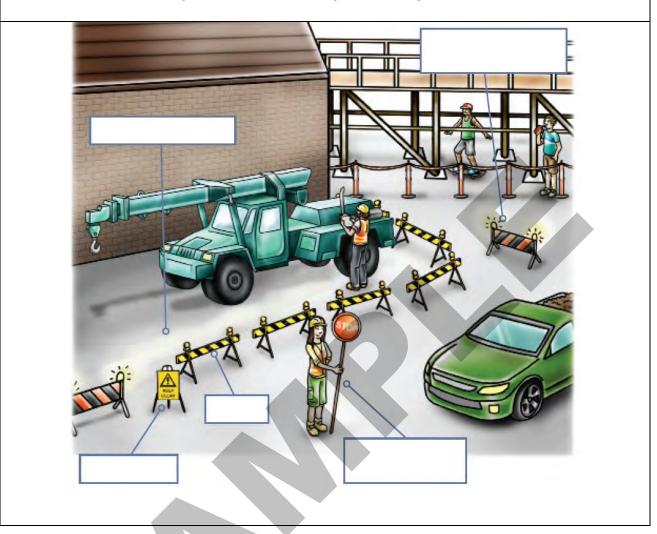
### **QUESTION 28**

The crane operator is folding the boom so he can drive the crane.

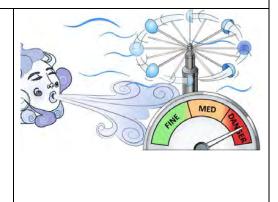
What hazards (dangers) do you need to think about in the crane's operating radius or reach? How can you control the hazards?



QUESTION 29
What hazard controls can you use for vehicles or plant on the job?



You are operating the crane and the wind speed increases. What should you do?



What is the mass (weight) of:

- a) 100 litres of water?
- b) 1 cubic metre of timber (hardwood)?
- c) 1 cubic metre of blue metal?

Answer may include but is not limited to:

- a) 100 litres of water =
- b) 1 cubic metre of hardwood timber =
- c) 1 cubic metre of blue metal =



### **QUESTION 35**

Is it the crane operator's job (responsibility) to know the weight of the load?



### QUESTION 36. How do you know what crane to choose?



You need to mobile the crane to relocate a load.

When do you need to decide on the path you will take?



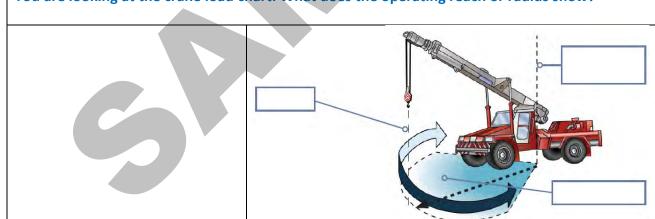
### **QUESTION 43**

When should you test communications equipment to make sure it is functioning correctly?



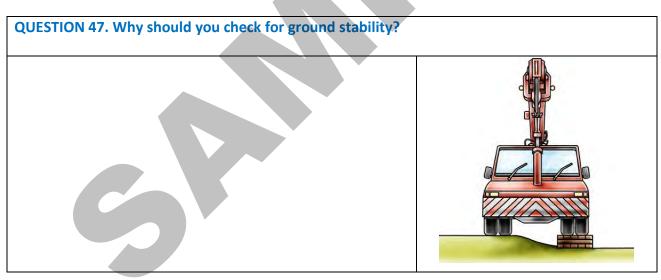
### **QUESTION 44**

You are looking at the crane load chart. What does the operating reach or radius show?



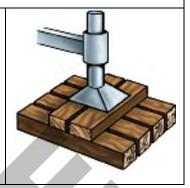
## QUESTION 45 What do you need to plan for when moving a load within a crane's working radius?





QUESTION 48. What are the best ground types for setting up a crane?		

You will work in an area with soft, wet ground. The crane might sink. How can you make the crane stable?

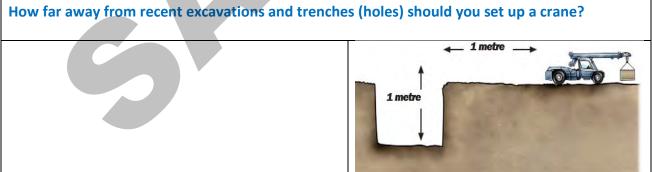


### **QUESTION 58**

You are setting up the crane and see that one of the wheels or outriggers is sinking. What do you have to do?



### **QUESTION 59**



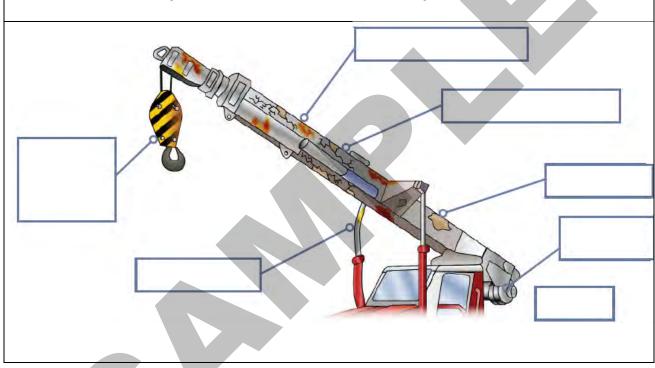
### QUESTION 66. Why should you check the crane?



### **QUESTION 69**

You are inspecting the crane.

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



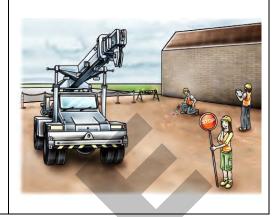
### **QUESTION 70**

You are using a rubber tyre crane. Your crane's tyres must be at the right pressure. Why is this important?



You have some lifting jobs to do.

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



### **QUESTION 72**

How do you climb into the crane's cabin safely?



QUESTION 74. What fluid checks might you make on a non-slewing mobile crane?



### QUESTION 75. What boom checks might you make on a non-slewing mobile crane?



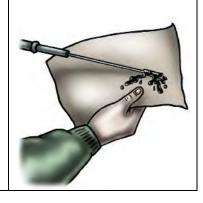
### **QUESTION 76**

Why is it important to check the crane and equipment before use? Who is responsible for the checks?

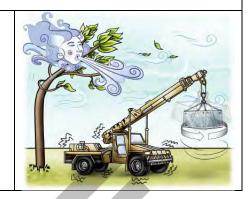


### **QUESTION 77**

You are going to use a crane. What kinds of pre-start checks should you do first?



Can you give some examples of when the weather is a hazard?



### Question 143. Is it safe to work in windy conditions?

Answer may include but is not limited to:

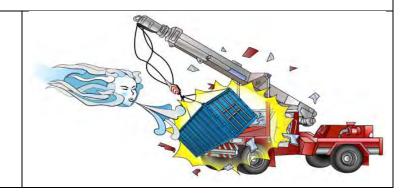
You are planning to use your crane on a job on Thursday. You check the weather forecast. Your crane is rated to a safe wind speed of 35 km/h. Is it safe to use your crane?

Answer: .....

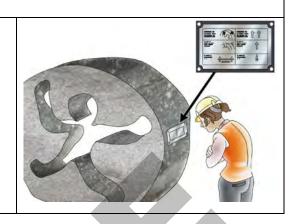
34 km/h	38 km/h	24 km/h	19 km/h	16 km/h
4	1	J	7	71
Monday	Tuesday	Wednesday	Thursday	Friday
9	77	7	12	42
16' 9'	13. 7.	14.8.	15. 9.	13. 6.

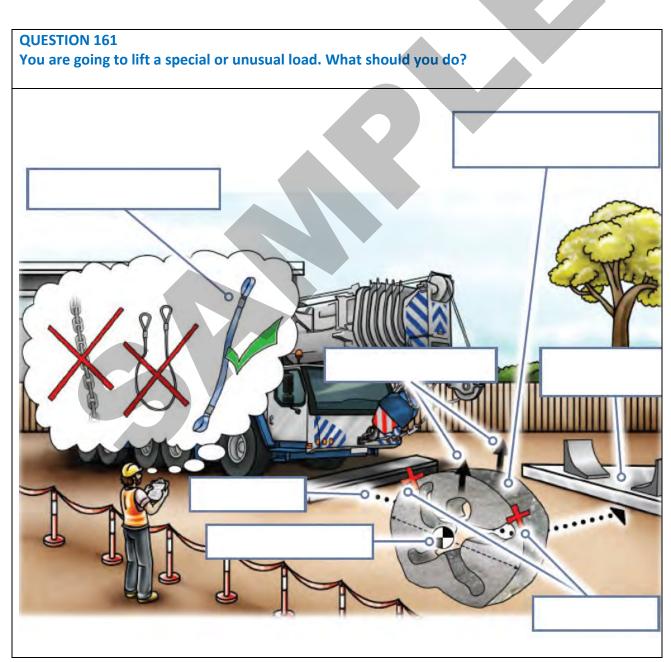
### **QUESTION 144**

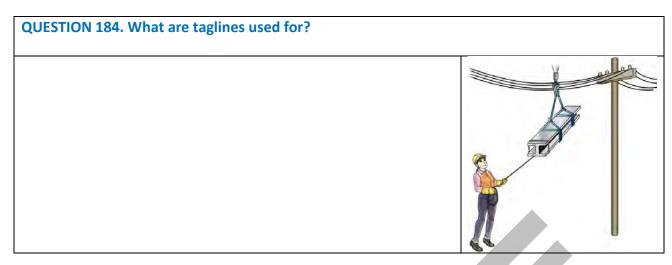
What might happen if you face the crane into the wind, and the wind is blowing towards the boom?

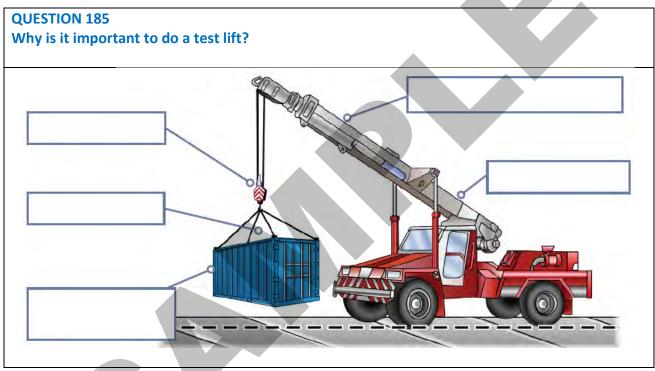


QUESTION 160
How should you lift special loads?





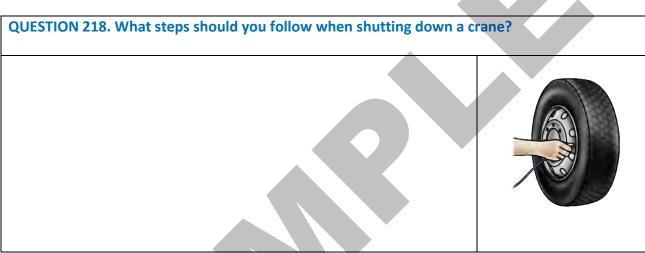


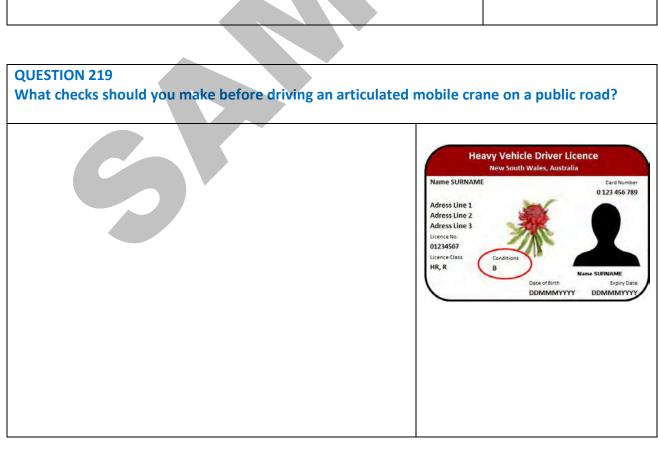


# QUESTION 186 You are doing a test lift and you have lifted the load just off the lifting plane (ground). You find there is a problem with the lift. What do you need to check and do?

### PREPARE TO DRIVE AN ARTICULATED MOBILE CRANE

### QUESTION 217 What should you do with any items on the cranes body?





### Practical Assessment 1 – PRE-START CHECKS



Student is to conduct a pre-start of crane before use.

Items needed for task:

- Non-slewing mobile crane.
- Pre-start checklist



Skill to be demonstrated	✓ Tick if demonstrated
<ul> <li>Apply relevant procedures that reflect legislative requirements, e.g. need the relevant high risk work licence</li> <li>Comply with Commonwealth, state and territory work health and safety (WHS)/occupational health and safety (OHS) legislation and safe work procedures</li> </ul>	
Read and interpret relevant instructions, procedures, information and signs	
Interpret and confirming relevant documentation for the work task and relevant area	
Complete pre-start checks, including:	
visual damage or equipment faults	
battery power level as required by manufacturer requirements	
<ul> <li>engine/mechanical fluid level checks as required by manufacturer requirements</li> </ul>	
presence of correct logbook	
evidence of damage	
fluid leaks	
lights work effectively	
<ul> <li>locating, identifying and confirming all controls</li> </ul>	
mirrors and seat are adjusted appropriately	
safety equipment checks	
<ul> <li>signage and labels to ensure they are visible and legible</li> </ul>	
<ul> <li>checking for signs of paint separation and stressed welds</li> </ul>	
indicating potential structural weakness	
<ul> <li>tyres and wheels for damage/wear and correct inflation</li> </ul>	
(water/air)	
<ul> <li>updating records as required</li> </ul>	

Start-up is in accordance with manufacturer require workplace procedures	ments and	
there are no unusual noises		
steering, transmission and brake functions comprequirements	ly with operating	
Complete operational checks ensuring:		
all controls are located, identified and tested for	functionality	
all hydraulic functions are operational		
lifting gear movements and control functions are comply with lift plan	e smooth and	
Hazard warning systems, safety, audible and visual warn checked to ensure they are functional, including:	ning devices are	
reversing beepers		
• lights		
• horns		
<ul> <li>rated capacity (RC) indicator alarm (where fit</li> </ul>	ted)	
anti-two block alarms (where fitted)		
determine any defects or faults with operation of cr reporting to relevant person/s	ane and	
The applicants' performance in Practical Assessment 1 - was deemed to be:		
☐ Satisfactory	☐ Not yet satisfactory	
Applicant signature:	Date:	
Trainer/assessor signature:	Date:	

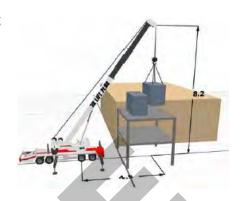
### **Practical Assessment 2 – LIFT PLAN**



Student is given a lifting task that includes lifting a load and landing it in its destination.

Items needed for task:

- Non-slewing mobile crane.
- Load.
- Slings.



	Skill to be demonstrated		✓ Tick if demonstrated
First, a lifting plan is	s made that includes:		demonstrated
Lift Details: Load w	eight, dimensions, and handling needs.		
<b>Equipment:</b> Crane s	specs, capacity, and rigging.		
with lift plan and perform work,	ok	relevant lifting gear to ed for load, including:	
Site conditions of	e layout, ground containons, und crivinos	interitar ractors.	
Personnel: Roles ar	nd responsibilities of the team, e.g.		
Team member	Role	Responsibility	
Team member 1			
Team member 2			
Team member 3			
Team member 4			
Safety Measures: S	afety procedures and precautions e.g. S	l et up an exclusion zone.	

<b>Lift Procedure:</b> Step-by-step process for the lift.	
Communication: How team members will stay in co	ntact.
The applicants' performance in Practical Assessmen	nt 2 - was deemed to be:
☐ Satisfactory	☐ Not yet satisfactory
Applicant signature:	Date:
Trainer/assessor signature:	Date:

### **Assessment Summary – Competency Sign Off**

Note: The Learner Workbook can be used as formative assessment (provide ongoing feedback). Therefore the student can use the Learner Guide and/or get help from the trainer in completing the workbook.

Knowledge questions		Satisfactory	Not Satisfactory
1. High risk lice	ensing and the law		٠
2. Plan work /	task		
3. Prepare for	work / task		
4. Perform wo	rk / task		0
5. Prepare to o	lrive an articulated crane		
6. Drive an art	iculated mobile crane		
7. Pack up			
Practical training ta	sks		
1. Pre-start ch	ecks		
2. Lift plan			
3. Identify and control hazards			
4. Operate crane with a load			
5. Operate crane without a load			
6. Keep load s	able		
7. Communication signals			
8. Prepare to travel on road			
Competency:	Not Yet Competent ☐	Competent	
	Date	Date	

Feedback to be give	n to candidate:
Trainer signature:	
	The learner has been assessed as \(\bigcup \) Not Yet competent / \(\bigcup \) competent in the elements and performance criteria, critical aspects for assessment, required skills and knowledge for this unit and the evidence presented is: \(\bigcup \) Authentic \(\bigcup \) Valid \(\bigcup \) Reliable \(\bigcup \) Current \(\bigcup \) Sufficient

