

ACTIVITY BOOK

PART A – WRITTEN QUESTIONS

1. If you successfully pass this course, how many days do you have to get your paperwork to the post office (to apply for your licence)? [Learner Guide Section: 1.1.2]

2. If a person is enrolled in a course for HRW training, who must they be supervised by? [Learner Guide Section: 1.1.2]

3. What can the regulator do if you fail to work safely? List three (3) things. [Learner Guide Section: 1.1.2]

1) _____

2) _____

3) _____

4. Who is responsible for inspecting a crane and ensuring the crane can lift the load? [Learner Guide Section: 1.1.3]

5. List the six (6) main types of WHS/OHS legislation, requirements and guidelines (where you can source OHS information). [Learner Guide Section: 1.2.2]

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____










6. List twelve (12) common workplace hazards relevant to your work as a crane operator.

[Learner Guide Section: 1.3]

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____
- 9) _____
- 10) _____
- 11) _____
- 12) _____

SAMPLE PAGES

7. Shown below are the hand signals used in Australia. Complete the missing information by correctly interpreting the signals. [Learner Guide Section: 1.4.2.1]

HAND SIGNALS			
Motion	Signal	Motion	Signal
<input type="text"/>		<input type="text"/>	
<input type="text"/>		<input type="text"/>	
<input type="text"/>		<input type="text"/>	
<input type="text"/>		<input type="text"/>	
		<input type="text"/>	

Creep Speed: Appropriate hand signal for motion with hand opening and closing

8. You must check your communication equipment such as radios and whistles
..... to ensure it is working and that there are no faults or damages.

Complete this sentence using the correct answer.

(Hint: When must you do this check?) [Learner Guide Section: 1.4.2.2]

9. Identify four (4) things that must be taken into consideration if you are setting up or
operating a crane near buildings. [Learner Guide Section: 1.5.2.2]

- 1) _____
- 2) _____
- 3) _____
- 4) _____

10. List eight (8) examples of post-start checks that need to be made before using the crane.

[Learner Guide Section: 2.5]

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____

CALCULATIONS QUESTIONS

If a mobile slewing crane that weighs 29200kg is to be set up to lift a 15t load on compacted gravel. What is the smallest packing pad needed for each outrigger?

- ◆ Total Crane Mass = 29200kg = 29.2t
- ◆ Load to be lifted or Load Mass = 15 tonne.
- ◆ Compacted Gravel Soil Bearing Pressure = 40 tonnes/m².

$$\text{Area of packing (m}^2\text{)} = \frac{0.65 \times (\text{Crane Mass} + \text{Load Mass})}{\text{Soil Bearing Pressure (V)}}$$

Apply this formula to calculate the area of packing.

Area of packing =

The following sized outrigger pads are available:

- ◆ 0.25m²
- ◆ 0.5m²
- ◆ 0.75m²
- ◆ 1m²

Based on your calculations, the smallest packing pad needed for each outrigger would have an area of

..... m², so the required outrigger size would bem².

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