

ACTIVITY BOOK

PART A – WRITTEN QUESTIONS

1. What is a Bridge and Gantry Crane? [Learner Guide Section: 1.1.1]

Bridge crane	
Gantry Crane	

2. What is meant by the crane movement term 'hoisting'? [Learner Guide Section: 1.1.2]

3. What is meant by the crane movement term 'traversing'? [Learner Guide Section: 1.1.2]

4. What is your duty of care when at work? List three (3). [Learner Guide Section: 1.2.2]

1) _____

2) _____

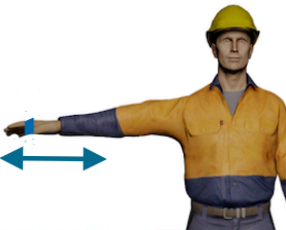
3) _____

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

[Learner Guide Section: 1.4]

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

6. Shown below are the hand and whistle signals used in Australia for directing bridge and gantry cranes. Complete the missing information by correctly interpreting the signals. 'Hoisting Lower' is provided as an example. [Learner Guide Section: 1.6.1]

HAND SIGNALS	
Whistle, Bell & Buzzer Signals 2 Short .. 	Hoisting Lower Whistle, Bell & Buzzer Signals 1 Long — 
	
	
Whistle, Bell & Buzzer Signals 1 Short • 	

7. List eight (8) examples of pre-start checks that you would carry out. [Learner Guide Section: 2.3.1]

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

8. List four (4) things you must ensure before leaving the crane unattended overnight. [Learner Guide Section: 3.5]

1. _____
2. _____
3. _____
4. _____

9. List five (5) things you may do as part of routine post-operational checks on the crane. [Learner Guide Section: 3.6]

1. _____
2. _____
3. _____
4. _____
5. _____

PART B – CALCULATION QUESTIONS

1. What is the weight of a rectangular block of solid concrete measuring 5m long, 1m wide and 0.5m high? Concrete weighs 2.4 tonnes per cubic metre. [Learner Guide Section: 2.1.2]
Show all working.

2. What is the weight of a bundle of 12 hardwood timber beams where each beam is 7m long, 0.2m wide and 0.2m high? Hardwood timber weighs 1.1 tonnes per cubic metre. [Learner Guide Section: 2.1.2]
Show all working.