CPCCLDG3001 Licence to perform dogging

STUDENT ACTIVITY BOOK

Student full name	
Date	

CPCCLDG3001 Licence to perform dogging

This unit specifies the skills and knowledge required to safely perform dogging work. Dogging consists of the application of slinging techniques to move a load, including the selection and inspection of lifting gear, and the directing of a plant operator in the movement of a load when the load is out of sight of the operator.

Dogging work is conducted in the construction industry and other industries where loads are lifted and moved using cranes or hoists.

Completion of the general construction induction training program, specified in the Safe Work Australia model Code of Practice: Construction Work, is required by anyone carrying out construction work. Achievement of CPCCWHS1001 Prepare to work safely in the construction industry meets this requirement.

Competence in this unit does not in itself result in a licence. A licence is obtained after competence is assessed under applicable Commonwealth, state or territory work health and safety (WHS) regulations.

STUDENT ACTIVITY BOOK

STUDENT RECORD OF TRAINING - Student Details

Student full name			
Trainer/Assessor			
Trainer/Assessor name		Date	
Trainer/Assessor comments			

STUDENT INSTRUCTIONS

1. The activity book is used as learning resource only and is not for assessment, it may be used in conjunction with the student guide and or PowerPoint
2. All questions should be attempted
3. Discussion with other students is permitted during activity book
4. Assistance from the Trainer/Assessor may be requested to clarify a question
5. More than one multiple choice answer may be correct
6. Return or hand the activity book to the Trainer/Assessor or the RTO once completed
7. You may choose to mark your own activity book during your RTO attendance if desired

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Short Questions	S	NS	Short Questions	S	NS
1. Complete the following questions. **List four (4) persons you could speak with about workplace hazards before working.** …… …… …… …… **Why would you speak to other persons about workplace hazards before working?** ***Provide two (2) examples*** …… ……				☐	☐
2. What else should be planned for <u>other than hazards</u> prior to starting work? ***Provide six (6) examples*** …… …… …… …… …… ……	☐	☐			

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Short Questions	S	NS	Short Questions	S	NS
3. Briefly explain the meaning of the following terms. ***A Hazard*** ……..…….. ***A Risk*** ……..……..				☐	☐
4. What types of work tasks can a licensed dogger conduct on a worksite? ***Provide five (5) examples*** …….. …….. …….. …….. ……..	☐	☐	**5. What must an employer provide, before you can perform new or unknown dogging activities?** ***Provide three (3) examples*** …….. …….. ……..	☐	☐
6. What duty of care do you have regarding the health and safety of yourself and others? ***Provide three (3) examples*** …….. …….. ……..	☐	☐	**7. If a high-risk worker is not working safely under a high-risk work licence, what can the work health and safety regulator do?** ***Provide three (3) examples*** …….. …….. ……..	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
8. What obligations do employers have to ensure the health and safety of all workers? ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐	**9. What documents can help you obtain workplace safety information?** ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐
10. What types of information will supply details on the safe use and care of slings? …….. ……..	☐	☐			
11. What type of workplace hazards need to be considered and planned for? ***Provide seven (7) examples***				☐	☐

Structure or environment	*Movement*	*Underground and overhead*

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Short Questions	S	NS	Short Questions	S	NS
12. At what height is fall prevention or fall arrest equipment required? a. 2m or higher b. 1.5 m c. 3m and above d. 4m	☐	☐	**13. What risk controls and equipment could be used to prevent access to vehicles or pedestrians in the work area?** a. Exclusion zones / traffic control b. Traffic or pedestrian barriers c. Signs / lights d. Traffic management plan e. All the above	☐	☐
14. How would you respond to an unsafe incident or event that occurs during dogging operations? ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐			

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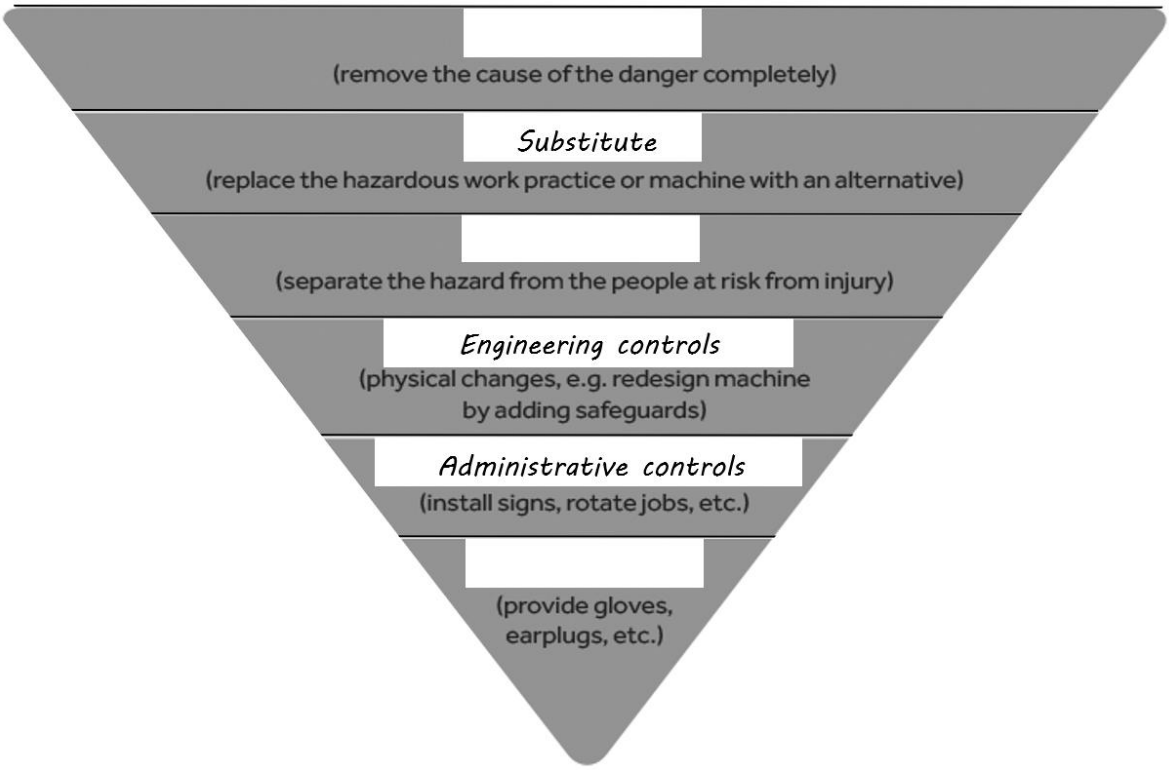
Short Questions	S	NS	Short Questions	S	NS

15. What are the missing controls from the hierarchy? ☐ ☐

a. Isolate, Hesitate, Personal protective equipment
b. Eliminate, Isolate, Personal protective equipment
c. Hesitate, Eliminate, Personal protective equipment
d. None of the above



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Short Questions	S	NS	Short Questions	S	NS

16. What distance is an unauthorised person required to maintain when working near electric lines <u>in your state</u>? ☐ ☐

QLD	
Up to 132KV	
132kv to 330kv	
More than 330kv	

NT	
50v to 1000v	
1000v to 33000v	
33000v to 66000v	
66000v to 132000v	

17. What visual signs can identify the location of power lines on your worksite? ☐ ☐

Provide three (3) examples

……..

……..

……..

18. If necessary, how can you work closer than the prescribed safe operating distance for power lines? ☐ ☐

Provide three (3) examples

……..

……..

……..

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Short Questions	S	NS	Short Questions	S	NS
19. What is the risk for a person near the structure of a crane during operations, how can this be controlled? ***Risk*** …… …… …… ***Control*** …… …… ……	☐	☐	**20. Why wouldn't you lift or lower a load over people?** …… …… ……	☐	☐
21. What needs to be in place before conducting dogging activities in a low light environment? …… ……	☐	☐	**22. When do you apply risk control measures?** …… …… ……	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
23. When do you inspect safety equipment including personal protective equipment? …….. …….. ……..	☐	☐	**24. What should be considered when planning the load path when a stationary slewing crane will be used?** ***Provide five (5) examples*** …….. …….. …….. …….. ……..	☐	☐
25. What responsibility does the dogger have regarding establishing and communicating the load weight? …….. …….. …….. ……..	☐	☐	**26. What methods can be used to determine the weight of a load?** ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐
27. What is the primary consideration when planning to lift a live load? …….. ……..	☐	☐			

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Short Questions	S	NS	Short Questions	S	NS

28. What is the weight of the following?

500 litres of water

……..

1 cubic metre of steel

……..

1 cubic metre of concrete

……..

Load Material	Approximate Weight per m^3	Load Material	Approximate Weight per m^3
Aluminium	2700kg / m^3	Granite	2600kg / m^3
Bricks	4000kg / 1000	Gypsum	2300kg / m^3
Bronze	8500kg / m^3	Iron, ore	5400kg / m^3
Cast Iron	7200kg / m^3	Lead	11200kg / m^3
Cement (25 bags)	1000kg	Steel	7850kg / m^3
Clay	1900kg / m^3	Poly Pipe	970kg / m^3
Coal	864kg / m^3	Timber (hardwood)	1100kg / m^3
Concrete	2400kg / m^3	Timber (soft)	600kg / m^3
Copper	9000kg / m^3	Water	1000kg / m^3 1L = 1kg
Earth	1900kg / m^3		

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Short Questions	S	NS	Short Questions	S	NS

29. A drum must be lifted using two vertical flexible steel wire ropes (FSWR) connected to a spreader bar

- The weight of the load is 1500kg evenly distributed between the lifting points

What is the minimum Working Load Limit necessary for each directly loaded sling leg?

Show all your calculations

Using the load chart provided, what is the minimum diameter sling required when the slings are directly loaded?

WIRE ROPE DIA. mm	DIRECT LOAD	CHOKE HITCH		DIRECT LOAD			CHOKE HITCH				BASKET HITCH							
		ROUND LOAD	RECTANGULAR LOAD				ROUND LOAD		OTHER THAN ROUND LOAD		ROUND LOAD				OTHER THAN ROUND LOAD			
							SINGLE WRAP	DOUBLE WRAP	SINGLE WRAP	DOUBLE WRAP								
				0°- 60°	90°	120°	0° - 45°	0° - 60°	0° - 45°	0° - 60°	0°	60°	90°	120°	0°	60°	90°	120°
MAXIMUM WORKING LOAD LIMITS IN TONNES OF 1000kg for **1570 GRADE FIBRE CORE** - GALVANISED																		
8	0.55	0.41	0.27	0.94	0.77	0.55	0.71		0.48		1.09	0.94	0.77	0.55	0.55	0.48	0.39	0.27
9	0.69	0.52	0.34	1.19	0.97	0.69	0.90		0.60		1.38	1.19	0.97	0.69	0.69	0.60	0.49	0.34
10	0.85	0.64	0.43	1.47	1.20	0.85	1.11		0.74		1.70	1.47	1.20	0.85	0.85	0.74	0.61	0.43
11	1.03	0.77	0.52	1.78	1.45	1.03	1.34		0.90		2.1	1.78	1.45	1.03	1.03	0.90	0.73	0.52
12	1.23	0.92	0.61	2.1	1.73	1.23	1.59		1.07		2.5	2.1	1.73	1.23	1.23	1.07	0.87	0.61
13	1.44	1.08	0.72	2.5	2.0	1.44	1.87		1.25		2.9	2.5	2.0	1.44	1.44	1.25	1.02	0.72
14	1.67	1.25	0.83	2.9	2.4	1.67	2.2		1.45		3.3	2.9	2.4	1.67	1.67	1.45	1.19	0.83
16	2.2	1.64	1.09	3.8	3.1	2.2	2.8		1.90		4.4	3.8	3.1	2.2	2.2	1.90	1.55	1.09
18	2.8	2.1	1.38	4.8	3.9	2.8	3.6		2.4		5.5	4.8	3.9	2.8	2.8	2.4	1.97	1.38
20	3.4	2.6	1.70	5.9	4.8	3.4	4.4		3.0		6.8	5.9	4.8	3.4	3.4	3.0	2.4	1.70
22	4.1	3.1	2.1	7.1	5.8	4.1	5.4		3.6		8.3	7.1	5.8	4.1	4.1	3.6	2.9	2.1
24	4.9	3.7	2.5	8.5	6.9	4.9	6.4		4.3		9.8	8.5	6.9	4.9	4.9	4.3	3.5	2.5
26	5.8	4.3	2.9	10.0	8.1	5.8	7.5		5.0		11.5	10.0	8.1	5.8	5.8	5.0	4.1	2.9
28	6.7	5.0	3.3	11.6	9.4	6.7	8.7		5.8		13.4	11.6	9.4	6.7	6.7	5.8	4.7	3.3
32	8.7	6.5	4.4	15.1	12.3	8.7	11.3		7.6		17.4	15.1	12.3	8.7	8.7	7.6	6.2	4.4

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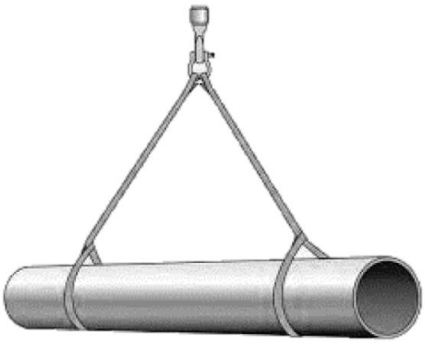
Short Questions	S	NS	Short Questions	S	NS

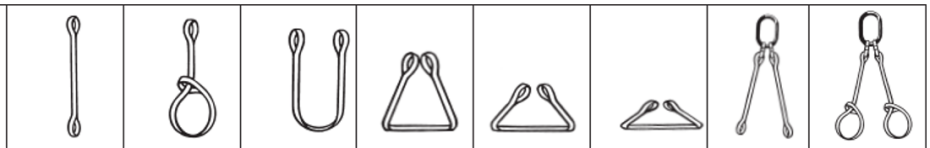
30. The task requires a cast iron pipe to be lifted



- Two synthetic slings are used to lift cast iron pipe
- The angle between slings is 60 degrees
- Pipe weight is 104kg per lineal metre
- The pipe length is 6.5m

What is the total pipe weight?

Using the pipe weight, what sling is the minimum required?



L = LOAD FACTOR		L = 1.0	L = 0.8	L = 2.0	L = 1.7	L = 1.4	L = 1.0	L = 1.7	L = 1.38
Colour	W.L.L Tonnes	VERTICAL W.L.L Tonnes	CHOKE W.L.L Tonnes	BASKET W.L.L Tonnes	60° W.L.L Tonnes	90° W.L.L Tonnes	120° W.L.L Tonnes	60° W.L.L Tonnes	60° CHOKE W.L.L Tonnes
Violet	1.0	1.0	0.8	2.0	1.7	1.4	1.0	1.7	1.3
Green	2.0	2.0	1.6	4.0	3.4	2.8	2.0	3.4	2.7
Yellow	3.0	3.0	2.4	6.0	5.1	4.2	3.0	5.1	4.1
Grey	4.0	4.0	3.2	8.0	6.9	5.6	4.0	6.9	5.5
Red	5.0	5.0	4.0	10.0	8.6	7.0	5.0	8.6	6.9
Brown	6.0	6.0	4.8	12.0	10.3	8.4	6.0	10.3	8.2
Blue	8.0	8.0	6.4	16.0	13.8	11.2	8.0	13.8	11.0
Orange	10.0	10.0	8.0	20.0	17.3	14.1	10.0	17.3	13.8

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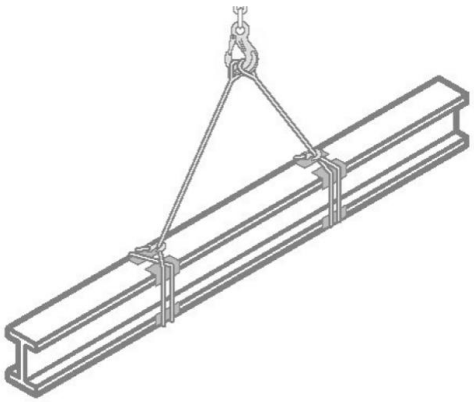
Short Questions	S	NS	Short Questions	S	NS

31. A task requires that two flexible steel wire ropes (FSWR) are to be used and reeved as displayed in the below picture ☐ ☐

- The sling angle is 60 degrees
- The beam is 105 kg per lineal metre
- The beam is double wrapped
- The length of the beam is 7m



Show your calculations

What is the weight of the 7m beam?

Using the sling chart below, what is the minimum diameter size sling required to safely lift the load?

WIRE ROPE DIA. mm	DIRECT LOAD	CHOKE HITCH		DIRECT LOAD			CHOKE HITCH				BASKET HITCH							
		ROUND LOAD	RECTANGULAR LOAD				ROUND LOAD		OTHER THAN ROUND LOAD		ROUND LOAD				OTHER THAN ROUND LOAD			
							SINGLE WRAP	DOUBLE WRAP	SINGLE WRAP	DOUBLE WRAP								
				0°- 60°	90°	120°	0° - 45°	0° - 60°	0° - 45°	0° - 60°	0°	60°	90°	120°	0°	60°	90°	120°
MAXIMUM WORKING LOAD LIMITS IN TONNES OF 1000kg for 1570 GRADE FIBRE CORE - GALVANISED																		
8	0.55	0.41	0.27	0.94	0.77	0.55	0.71	0.48	1.09	0.94	0.77	0.55	0.55	0.48	0.39	0.27		
9	0.69	0.52	0.34	1.19	0.97	0.69	0.90	0.60	1.38	1.19	0.97	0.69	0.69	0.60	0.49	0.34		
10	0.85	0.64	0.43	1.47	1.20	0.85	1.11	0.74	1.70	1.47	1.20	0.85	0.85	0.74	0.61	0.43		
11	1.03	0.77	0.52	1.78	1.45	1.03	1.34	0.90	2.1	1.78	1.45	1.03	1.03	0.90	0.73	0.52		
12	1.23	0.92	0.61	2.1	1.73	1.23	1.59	1.07	2.5	2.1	1.73	1.23	1.23	1.07	0.87	0.61		
13	1.44	1.08	0.72	2.5	2.0	1.44	1.87	1.25	2.9	2.5	2.0	1.44	1.44	1.25	1.02	0.72		
14	1.67	1.25	0.83	2.9	2.4	1.67	2.2	1.45	3.3	2.9	2.4	1.67	1.67	1.45	1.19	0.83		
16	2.2	1.64	1.09	3.8	3.1	2.2	2.8	1.90	4.4	3.8	3.1	2.2	2.2	1.90	1.55	1.09		
18	2.8	2.1	1.38	4.8	3.9	2.8	3.6	2.4	5.5	4.8	3.9	2.8	2.8	2.4	1.97	1.38		
20	3.4	2.6	1.70	5.9	4.8	3.4	4.4	3.0	6.8	5.9	4.8	3.4	3.4	3.0	2.4	1.70		
22	4.1	3.1	2.1	7.1	5.8	4.1	5.4	3.6	8.3	7.1	5.8	4.1	4.1	3.6	2.9	2.1		
24	4.9	3.7	2.5	8.5	6.9	4.9	6.4	4.3	9.8	8.5	6.9	4.9	4.9	4.3	3.5	2.5		
26	5.8	4.3	2.9	10.0	8.1	5.8	7.5	5.0	11.5	10.0	8.1	5.8	5.8	5.0	4.1	2.9		
28	6.7	5.0	3.3	11.6	9.4	6.7	8.7	5.8	13.4	11.6	9.4	6.7	6.7	5.8	4.7	3.3		
32	8.7	6.5	4.4	15.1	12.3	8.7	11.3	7.6	17.4	15.1	12.3	8.7	8.7	7.6	6.2	4.4		

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Short Questions	S	NS	Short Questions	S	NS

32. A roadside tourist attraction requires an oversized prop boot to be lifted into the display position which will be visible from the Bruce Highway

- The oversized prop boot will be lifted with a four-leg sling arrangement as shown in the picture below
- The boot has defined engineered lifting points (lugs)
- The slings used are 20mm 80 grade chain with non-derating shorteners
- The position of the lifting lugs and an uneven load will require that 2 legs of the sling are shortened
- Shortened legs are at 30 degrees to the vertical, the other two legs are at 45 degrees to the vertical

a) Using 20mm slings in this configuration, what is the maximum allowable weight the oversized boot can be?

b) Could you use 16mm chain for the lift if the oversized prop boot weighed 15,000kg (15 tonne)?

WLL in (tonnes) – Alloy Grade T (80) Chain Slings, Single & Multi Leg Assemblies

SINGLE LEG SLINGS				2, 3, OR 4 LEG SLINGS					BASKET SLINGS
CHAIN SIZE (mm)	STRAIGHT SLING	*ADJUSTABLE SLING	REEVED SLING	STRAIGHT SLING 60º	STRAIGHT SLING 90º	STRAIGHT SLING 120º	REEVED SLING Max 60º	1 LEG Max 60º	2 LEG Max 60º
6	1.1	1.1	0.8	1.9	1.6	1.1	1.4	1.4	2.5
7	1.5	1.5	1.1	2.6	2.1	1.5	2.0	2.0	3.4
8	2.0	2.0	1.5	3.5	2.8	2.0	2.6	2.6	4.5
10	3.2	3.2	2.4	5.5	4.5	3.2	4.2	4.2	7.2
13	5.3	5.3	4.0	9.2	7.5	5.3	6.9	6.9	11.9
16	8.0	8.0	6.0	13.8	11.3	8.0	10.4	10.4	18.0
20	12.5	12.5	9.4	21.6	17.6	12.5	16.3	16.3	28.1
22	15.0	15.0	11.3	26.0	21.2	15.0	19.5	19.5	33.8
26	21.2	21.2	15.9	36.7	29.9	21.2	27.6	27.6	47.7
32	31.5	31.5	23.6	54.5	44.4	31.5	41.0	41.0	70.9

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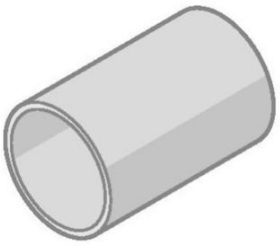
Short Questions	S	NS	Short Questions	S	NS

33. A hollow section of HDPE - high-density polyethylene pipe requires lifting

- Wall thickness 100mm
- Length 3.5m
- Outer diameter 2.6m
- Inside diameter 2.4m
- Solid polyethylene has a mass of 970 kg per cubic metre



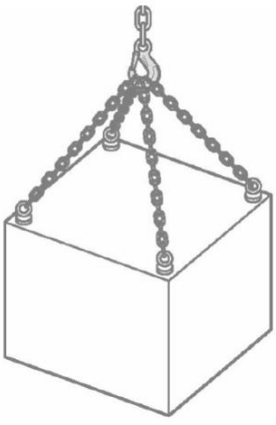
What is the total weight of the pipe in tonnes?

Answer must be rounded up to nearest tonne

34. The task requires a container with lifting lugs to be relocated

- The angle between diagonally opposite sling legs is 60 degrees
- Grade T (80) chain slings will be used
- The chain diameter is 13mm

Using the sling tag provided, what is the maximum load weight that can be lifted?



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Short Questions	S	NS	Short Questions	S	NS

35. Use the following consignment note to calculate the total container load weight that needs to be lifted

Consignment Note **CN - 2020 / 10 / 15 / 7589003** FOR OFFICE USE ONLY

CONSIGNOR	CONSIGNEE	FREIGHT PAYABLE BY:
ACCOUNT NO: 654829 1	ACCOUNT NO: N / A	ACCOUNT NO:
SUPPLIER ABC LTD	CIVIL CONSTRUCTION FORMWORKS	
POSTCODE 6027	SUBURB BLACKTOWN NSW POSTCODE 2148	
SUBURB PERTH WA		SUBURB POSTCODE
		Proposal / Quote No.:

CONSIGNMENT INFORMATION			DIMENSIONS			WEIGHT (KG'S)	
MARKS / UNIT No's Include Seal Number if applicable	TYPE OF UNIT / ISO	DESCRIPTION OF GOODS	LENGTH	WIDTH	HEIGHT	GROSS	NETT
44668 2	CTU	SHIPPING CONTAINER	40FT				3450kg
	1	5 x universal beams (119kg/m)	9m				
	2	17 x timber beams (9kg/m)	5.5m				
	3	1 x steel plates (143kg/sqm)	3m	0.5m			
					TOTAL		

SHIPPING SPACE SHOULD BE PRE-BOOKED.	CONSIGNOR'S DECLARATION	TRANSPORT OPERATOR ACCEPTANCE
Carriage of Dangerous Goods only allowed by special agreement and after notification to appropriate authorities.	Subject to all contract conditions of transport. All goods correctly restrained and offered for transport in good condition, except as specifically stated.	Collected by (include full signature below)
	Consignor's Signature	.....
	Date	Date .....

36. When setting up a load to be lifted, how would you determine the safe lifting or slinging points?

Provide two (2) examples

……

……

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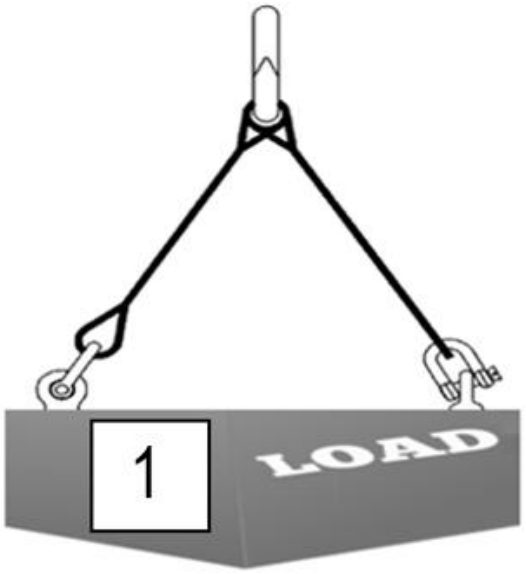
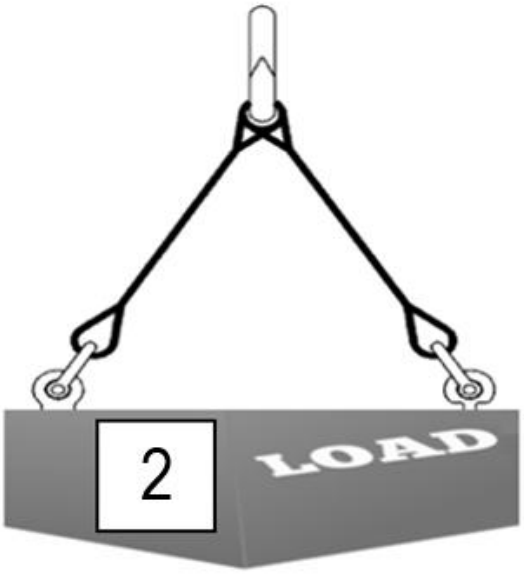
Short Questions	S	NS	Short Questions	S	NS

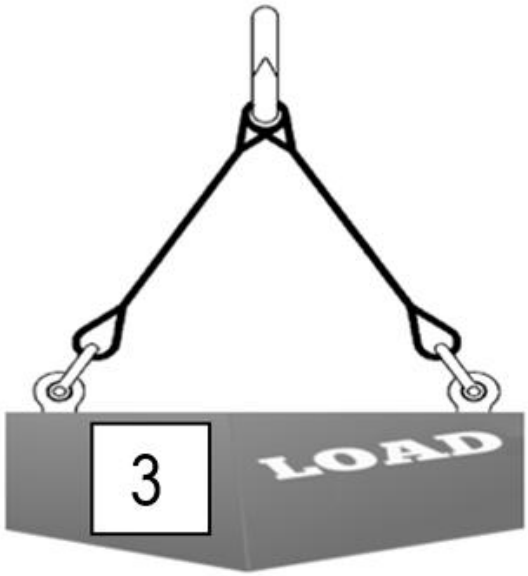
37. Which is the <u>correct method</u> of use when using eyebolts with a two-legged sling? ☐ ☐

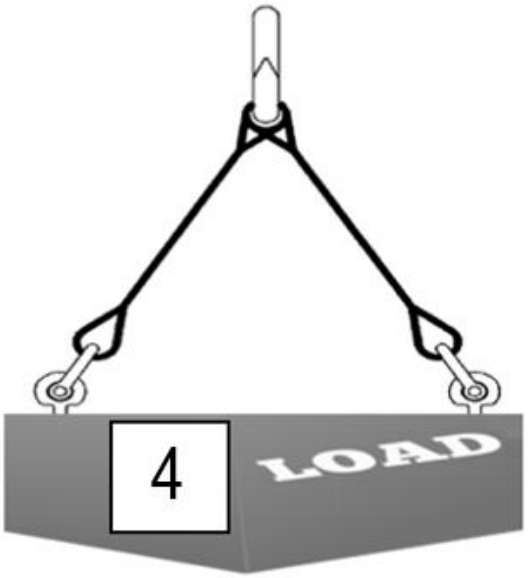
Circle your answer.

Note: Diagram contains collared and un-collared eyebolts.









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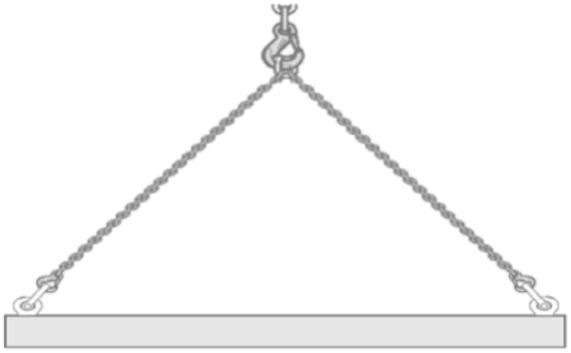
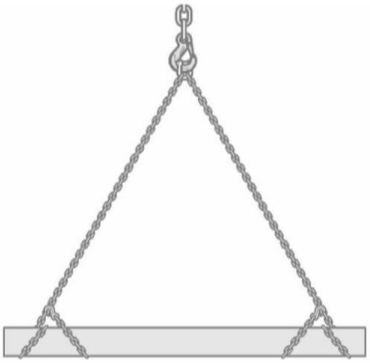
Short Questions	S	NS	Short Questions	S	NS
38. Calculate load factors due to the included sling angle in the below configurations				☐	☐
 **What is the load factor for an included sling angle of 90°?** …….. ……..			 **What is the load factor for an included sling angle of 60°?** Note: remember to account for choke factor …….. ……..		
39. What effect does an increase in sling angle have on the rated capacity of the sling? …….. ……..	☐	☐			

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Short Questions	S	NS	Short Questions	S	NS
40. Complete the following questions.				☐	☐

What are three methods a dogger or personnel may use to direct the crane?

……..

……..

……..

When would each method be used?

……..

……..

……..

41. How can you ensure you have a good understanding of emergency procedures for the equipment and site you are operating on? a. Attend site induction b. Identify the site emergency procedures and locations of emergency assembly areas c. Identify the site procedure for incident reporting d. Identify emergency shutdown procedures relative to the machine or equipment you are operating e. All the above	☐	☐	**42. What types of fall prevention and fall arrest equipment can be used for work at height?** a. Static line b. Safety harness c. Safety nets d. Lanyard e. All the above	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
43. How long should a lanyard be when using fall arrest to complete your task? a. As short as possible but long enough to allow you to do the work b. As long as possible but long enough to allow you to do the work	☐	☐	**44. When should risk controls, fall prevention and fall arrest equipment get checked for suitability or defect?** a. Before use b. After use c. According to manufacturer d. All the above	☐	☐
45. What personal protective equipment is required for dogging activities? ***Provide five (5) examples*** …….. …….. …….. …….. ……..	☐	☐	**46. How can you control the risk associated with high UV exposure?** a. Wear appropriate clothing for sun protection b. Drink plenty of water c. Take breaks d. Plan to work in lower UV rated times or days if possible e. All the above	☐	☐
47. Complete the following **Identify the type of lifting equipment used to lift a pallet of bricks.** …….. **Identify the type of lifting equipment used to lift steel plates.** …….. **Identify the type of lifting equipment used to lift a gas bottle.** ……..				☐	☐

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Short Questions	S	NS	Short Questions	S	NS
48. What type of information should be displayed on a sling tag? ***Provide four (4) examples*** …… …… …… ……	☐	☐	**49. What information must be displayed on a spreader-lifting beam?** ***Provide four (4) examples*** …… …… …… ……	☐	☐
50. What should be done before lifting any loads fitted with lifting lugs? ***Provide three (3) examples*** …… …… ……	☐	☐	**51. What type of shackle would you use to lift a load with multiple slings?** …… ……	☐	☐
52. What is the meaning of the following letters stamped on chain slings? **T =** …… **V =** ……	☐	☐	**53. What would you do if the tag on a chain sling is missing or unreadable?** …… …… …… ……	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
54. Why should twisted synthetic web slings not be used to lift loads? …….. …….. …….. ……..	☐	☐			

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Short Questions	S	NS	Short Questions	S	NS
55. Complete the following questions				☐	☐

What defects will indicate that a synthetic sling is unsafe for lifting purposes?

Provide seven examples

……..

……..

……..

……..

……..

……..

……..

What defects will indicate that a wire rope sling is unsafe for lifting purposes?

Provide seven examples

……..

……..

……..

……..

……..

……..

……..

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Short Questions	S	NS	Short Questions	S	NS
56. Complete the following questions.				☐	☐

Who is held accountable for inspecting lifting equipment prior to use?

……..

What is the purpose of inspecting all lifting equipment prior to commencing tasks?

……..

57. Complete the following questions ☐ ☐

What defects will indicate that shackles are unsafe for lifting purposes?

Provide four examples

……..

……..

……..

……..

What defects will indicate that lifting chains are unsafe for lifting purposes?

Provide seven examples

……..

……..

……..

……..

……..

……..

……..

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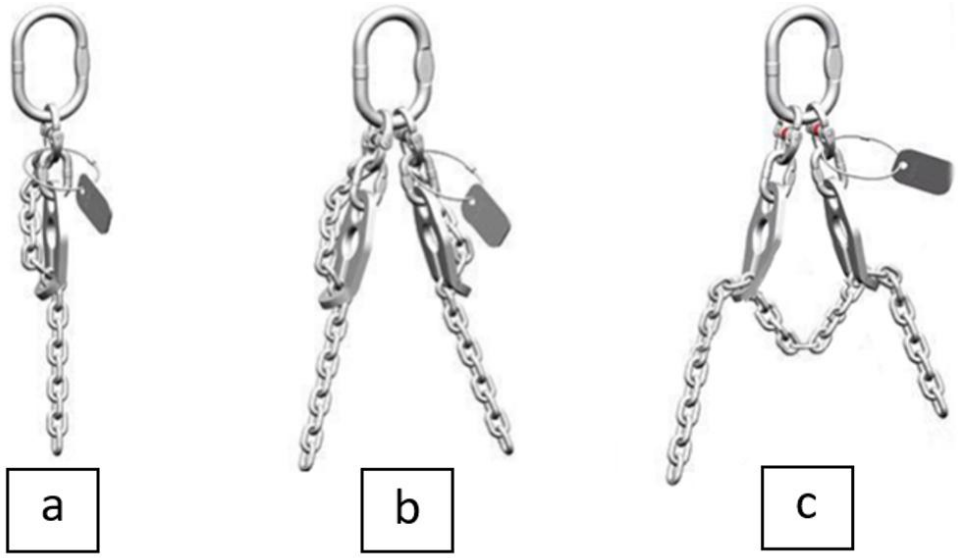
Short Questions	S	NS	Short Questions	S	NS
58. Identify (circle) the <u>incorrect use</u> of the chain shortener  				☐	☐
59. What checks should be made on a two-way radio before use? ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐	**60. How can you ensure the lift plan, risk controls and impact on other workplace activities are communicated to relevant personnel?** a. Involve them in the planning b. Involve them in the risk assessment process c. Establish and maintain communication throughout the entire lifting operations d. All the above	☐	☐
61. How can you ensure risk controls, safety equipment and measures have been applied? a. Check SWMS b. Visually check the operating area c. Safety data sheets d. None of the above	☐	☐	**62. What information must be clearly and permanently marked on a shackle body?** ***Provide three (3) examples*** …….. …….. ……..	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
63. When slinging a load using 2 slings, what variables could determine the length and capacity of the slings? ***Provide five (5) examples*** …… …… …… …… ……	☐	☐	**64. How can you ensure the reeves will not slip when choking a sling around a steel beam at an angle of 60°?** …… …… ……	☐	☐
65. How would you determine if a cantilever crane loading platform (CCLP) can support the load weight? ***Provide one (1) example*** …… …… ……	☐	☐	**66. Why would you consult with an engineer before landing a load on a suspended floor?** …… …… ……	☐	☐
67. What should be placed at the landing area to stop a concrete pipe from rolling away? …… …… ……	☐	☐	**68. What checks should be made to an area where you intend on landing loads?** a. Ground suitability to ensure stability b. Safe access for removal of lifting gear c. Exclusion zones for pedestrian and or vehicle d. All the above	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
69. What does the dogger need to consider when planning for travelling/mobiling with a load? ***Provide five (5) examples*** …….. …….. …….. …….. ……..	☐	☐	**70. What equipment would you use to secure FSWR slings to the hook of the crane?** a. Shackle to the Bull ring b. Bull ring c. Lifting rings d. None of the above	☐	☐
71. What should be fitted to a crane hook to stop the slings from coming off? …….. …….. ……..	☐	☐	**72. Why is it important to position the hook above the load centre of gravity?** ***Provide two (2) examples*** …….. ……..	☐	☐
73. How can you ensure a load with an irregular centre of gravity has been slung correctly? …….. ……..	☐	☐	**74. What load or reeve factor would you use when working with flexible steel wire rope or chain slings that is reeved around a round load with a choke hitch?** …… 	☐	☐

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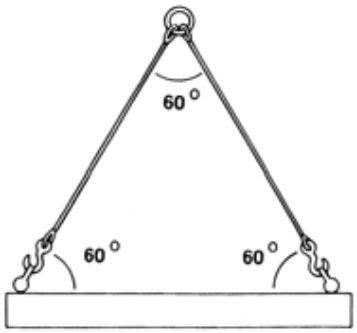
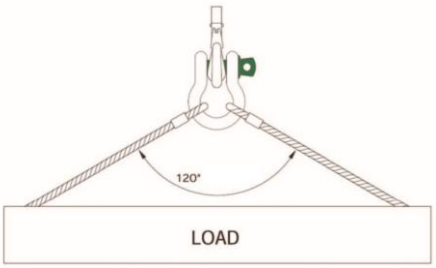
Short Questions	S	NS	Short Questions	S	NS
75. What load or reeve factor would you use when slinging a round load with flexible steel-wire rope and using a basket hitch? **Note: the load has a diameter 10 times the diameter of the sling** …… 	☐	☐	**76. What angle factor would be used if directly attaching a load using two leg slings at an angle of 60°?** …… 	☐	☐
77. What angle factor would be used if directly attaching a load using two leg slings at an angle of 120°? …… 	☐	☐	**78. What is the recommended safe angle between two legs of a sling?** ……	☐	☐
79. What is the maximum allowable angle between two legs of a straight sling lift? …… …… ……	☐	☐	**80. What is the maximum allowable angle you can use on a choked multi-legged chain sling?** ……	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
81. Complete the following questions **How many legs are calculated to take the weight when a four-legged sling will be used to lift a box?** …….. **How would you determine the maximum included angle when using a four-legged sling?** …….……..				☐	☐
82. What is the function of a tagline and when would you use one? ***Provide two (2) examples*** …….. ……..	☐	☐	**83. What should a tagline be made of and what is the smallest diameter tagline you may use?** …….. …….. ……..	☐	☐
84. List four (4) types of temporary rope connections when connecting a tagline to a load. a. Clove hitch b. Rolling hitch c. Single sheet bend d. Bowline e. All the above	☐	☐			

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Short Questions	S	NS	Short Questions	S	NS
85. Writing the missing signal meaning and whistle.				☐	☐

Hand Signal	Meaning	Whistle
		
		
		
		
		
		
		
		
		

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Short Questions	S	NS	Short Questions	S	NS
86. What would you do if you fail to understand a hand or radio signal during a lift? a. Stop all crane movements b. Ask for clarification of the last signal c. Continue with the lifting operation d. None of the above	☐	☐	**87. What checks should be made during a test lift and prior to moving a load?** ***Provide four (4) examples*** …….. …….. …….. ……..	☐	☐
88. Complete the following questions. **What equipment could be used to suspend a person from a crane to perform a work task?** | **Where would the person directing the crane for this task be?** |				☐	☐
89. What is the reason for directing and moving the load in accordance with the lift plan? a. To meets WHS requirements b. Comply with the environmental management plan c. Ensure the crane will not exceed the rated capacity while positioning, moving, or travelling with the load d. None of the above	☐	☐	**90. Why would you place a load on dunnage or blocks when landing a load?** …….. …….. ……..	☐	☐

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Short Questions	S	NS	Short Questions	S	NS
91. Why should additional or unwanted materials be removed from the work area as soon as possible? a. Hazard prevention b. Fill in time c. Safety d. None of the above	☐	☐	**92. What procedure is followed where defects are found with lifting gear or equipment?** a. Isolate defective equipment b. Label defective equipment c. Report defective equipment d. All the above	☐	☐
93. Where and how would you store lifting equipment when you have finished the task? ***Provide six examples*** …….. …….. …….. …….. …….. ……..	☐	☐	**94. What should you do with hazard control measures such as barriers, signs, or safety nets when they are no longer needed?** a. Remove them from the work area, inspect for defects and store them correctly b. Leave in place c. None of the above	☐	☐