

CRANES

- 1. When would a sheave become unsafe for use?
 - A. Excessive wear in a groove
 - B. Cracks or damage to flange
 - C. Worn sheave pins
 - D. Damage to cheek plate
- 2. What effect can blocking have on your crane and equipment?
 - A. Snap hoist rope
 - B. Damage main boom sheave
 - C. Cause load to drop
- 3. When the maximum number of turns is wound round the drum, how far must the flange of the drum extend above the outer layer of the rope?
 - A. At least 2 rope diameters
 - B. At least 3 rope diameters
 - C. At least 4 rope diameters
- 4. When the hook block is at its lowest point, what is the minimum amount of full turns of wire rope that must remain on the hoist drum?
 - A. 2
 - B. 3
 - C. 1
- 5. How can the lifting capacity of a hook block be identified?
 - A. It should be stamped or marked on the hook block
 - B. Will be marked on load charts
 - C. Block and crane is a matched pair
- 6. What safety device should be fitted (where applicable) to a hook block to prevent slings from dislodging?
 - A. A safety catch on the mouth of the hook
 - B. Mouse the hook
 - C. Does not require any safety catch
- 7. When lifting a heavy load what precautions would you take to work within a given radius?
 - A. Reduce the operating angle to allow for boom deflection
 - B. Extend operating radius
 - C. Leave boom length the same



8. What does this hand signal indicate?



LOWER DOWN

- 9. The crane you are operating has a single fall capacity of 7 tonnes; the load to be lifted is 10 tonnes. How can this lift be achieved using this crane?
 - A. Double reeve the hook block
 - B. Break load into smaller parts
 - C. Both A & B
- 10. Your crane load chart is virtually unreadable from wear and tear, what action would need to be taken?
 - A. Carry on until a convenient break and report it
 - B. Stop before work commences and get replacement chart
 - C. Need not bother, you are only lifting light loads
- 11. What items are required to determine the cranes lifting capacity at radius?
 - A. The hook block
 - B. Lifting attachments
 - C. The weight of load
- 12. When is it important to include the falls of hoist rope as part of a rated load?
 - A. Always include weight of rope
 - B. Include as per manufactures recommendations
 - C. No need to include weight of rope on any crane
- 13. Cranes have more stability when lifting over the side of the vehicle?
 - A. True
 - B. False
- 14. If the precise reading is not available on a load chart, what should you do?
 - A. Increase capacity of load
 - B. Remains the same
 - C. Decrease capacity of load



- 15. Whilst operating your crane it becomes windy. How would you check guidance for shut down?
 - A. Shut down to be on safe side
 - B. Continue lifting small loads
 - C. Check your operators manual for guidance
- 16. What is the recommended shut down speed of your crane?
 - A. <u>40 2 mins</u> MPH / KPH / KNOTS B. <u>35 - 6 mins</u> MPH / KPH / KNOTS C. 30 - 12mins MPH / KPH / KNOTS

Wind speeds for Tower Crane / Kato Truck mounted crane 22 Knots

- 17. Operators can work safely to manufactures wind speeds at all times?
 - A. True (only when lifting heavy loads)
 - B. False (operator must shut down job if he/she cannot safely complete task)
- 18. The load chart has a heavy black line across the chart, how would this affect the cranes structure & stability above and below the line?
 - A. Structural strength (above) and stability (below) lines
 - B. Stability (above) structural (below) line
 - C. Can lift loads above or below line safely
- 19. What does this hand signal indicate?





INCH LOAD OR TAKE THE STRAIN

- 20. Before commencing work on a site, why is it important to consult with the site manager?
 - A. So you can get time sheet signed
 - B. To be made aware of any rules regulations and procedures
 - C. No need to it will only slow the job up
- 21. What would be provided for a crane working at night or in a dark area?
 - A. Radio to keep operator awake
 - **B.** Sufficient lighting
 - C. Two or more banksman



- 22. What communication methods does the operator have other than the two way radio?
 - A. Hand signals
 - **B.** Whistles
 - C. Telephones
 - D. Light signals
- 23. Who would be involved if a load requires assessing?
 - A. The crane operator
 - **B.** Crane Coordinator
 - C. Banksman slinger
- 24. What factors should be considered when using a tag line?
 - A. Keep rope as long as possible
 - **B.** Weather conditions
 - C. Always double wrap as rope will not slip off
- 25. What precautions must be observed when working near power lines?
 - A. Stay as far back as possible
 - B. Only use a short jib length
 - C. Follow recommended minimum distances as per BS7121
- 26. What does this hand signal indicate?



JIB HEAD UP

27. What is the minimum working distance from?

(1)

- A. Steel pylons: 15 metres + full length of jib + half distance of load.
- B. Wooden poles: 9 metres + full length of jib + half distance of load.

(2)

If you can get clearance from local electricity company you can move crane into a minimum distance of? (GS6)

6 Metres + full length of jib + half distance of load.



- 28. What is the most important action to be taken if your crane comes into contact with live power cables?
 - A. Try to move crane away from conductor
 - B. Warn all other personnel to stay away
 - C. Remain in cab until power is disconnected (All would be important)
 - D. Check machine prior to future use
- 29. The total number of vertical parts of rope from which the hook block is suspended is called?
 - A. Rope ties
 - B. Rope stays
 - C. Falls of rope
- 30. You are operating a crane, which is to lift an object out of the water what special precautions should be taken?
 - A. Water conditions (swell, current and tide)
 - **B.** Weather conditions
 - C. Water tension on load (can sometimes double loads weight)
 - D. Do not use chain slings as they will rust
- 31. What does this hand signal indicate?



EXTEND JIB HEAD

- 32. Why is it important to check the over hoist limit or cut off switch?
 - A. To make sure it is operating correctly to avoid double blocking
 - B. To operate a man rider basket safely
 - C. To avoid going out of operating radius
- 33. What would you do to make sure that the crane is set up properly and level?
 - A. Check By eyesight
 - B. Check using the bubble level
 - C. Extend outriggers fully and crane will be level
- 34. What is the minimum distance away from an open excavation if excavation is 10 meters deep?
 - A. 15 meters + 6"
 - B. 10 meters + 1 meter
 - C. 6 meters + 4"



- 35. If the stabiliser / outrigger sinks into the ground what should the crane operator do?
 - A. Slew away quickly to another crane zone
 - B. Slew crane smoothly away into another crane zone
 - C. Drop load quickly
- 36. What would be the most secure way to set up a crane, on a road with an adverse camber?
 - A. Lower outriggers more to compensate for camber
 - B. Fill area of camber under packing with sand
 - C. Don't bother no need to care about camber
- 37. Where would you find the operating zone of the crane?
 - A. From load duty charts
 - B. From site agent
 - C. From banksman
- 38. In the event of any visual or audible devices going off. (Lights, alarms, cutouts) What action should be taken?
 - A. Ignore it and carry on because site agent tells you to
 - B. Call out a fitter
 - C. Identify the problem and take appropriate corrective action
- 39. What does this hand signal indicate?



JIB HEAD DOWN

- 40. When would you know if your crane requires multiple load lines?
 - A. Refer to cranes load charts
 - B. Always work with maximum falls of rope
 - C. Always work to minimum falls
- 41. What is the Importance of setting your crane up level?
 - A. To stop you creeping round in slew motion
 - B. To ensure stability
 - C. To ensure stability and crane can work to rated capacity



42. What does this hand signal indicate?



SLEW LEFT OR RIGHT

- 43. When would you add extra counterweights to your crane
 - A. When lifting heavy concentrated loads
 - B. As per crane manufactures recommendations
 - C. When lifting heavy loads at maximum radius
- 44. What is the Importance of having the boom head positioned correctly over the load?
 - A. To make life easier for banksman
 - B. Reduce risk of overloading, loss of crane stability and load swing
 - C. To double check operating radius
- 45. Your crane is required to remove a large object of unknown weight which is partially buried would you conduct the lift?
 - A. No not until mass of load has been determined
 - B. Yes you are on full falls of rope and close to object
 - C. Only if load has been excavated and unburied
- 46. What is the minimum operating radius of most cranes?
 - A. Check load charts
 - B. 4 meters
 - C. 0 meters
- 47. You are lowering (formwork) shutters from the top of a building, when there's a high wind.

Why would this become a hazard?

- A. None if you lower quickly
- B. Load could spin + destabilise the crane
- C. Load could spin but crane will remain stable
- 48. What does this hand signal indicate?



RETRACT JIB HEAD



- 49. When someone signals you to stop other than the person directing you. What should you do?
 - A. Stop and await instructions
 - B. Ignore other person he may not be qualified
 - C. Land load in safe place
- 50. After following shutdown would it be safe to leave a load suspended from a hook?
 - A. Only light loads
 - B. No hook must be left free
 - C. Yes to stop small tools being stolen overnight
- 51. When Involved in a dual crane lift you should?
 - A. Carry out the lift both cranes are not working to capacity
 - B. Would not carry out lift
 - C. Only proceed under direct supervision of crane co-odinator
- 52. When a sheave groove is larger than the diameter of rope. What might occur?
 - A. Will cause the rope to flatten
 - B. Will cause pinching of the rope
 - C. It will still operate safely
- 53. What would happen if the fleet angle of the hoist rope were Incorrect?
 - A. Would cause Spooling or uneven coiling of the hoist rope on the drum
 - B. The hoist rope may be pulled off the sheave and jam
 - C. Rope would need to be serviced on a regular basis
- 54. What problems would occur if the guide wheel seized?
 - A. Rope would be slower to wind on drum
 - B. Rope would still wind on drum properly
 - C. Spooling or uneven coiling of the hoist rope on the drum
- 55. What does this hand signal indicate?



STOP



- 56. What is a common way to secure and terminate a rope end?
 - A. Clamp
 - **B.** Wedge socket
 - C. Slip knot
- 57. What advantage does a swivel wedge socket provide?
 - A. None only for cost value
 - B. It will take twists out of your hoist rope under normal work conditions
 - C. Provides a more secure anchor point
- 58. The tail projection from the dead end of a rope used with a wedge socket is?
 - A. 15 x diameter to a minimum of 200mm
 - B. 15 x diameter to a minimum of 300mm
 - C. 15 x diameter to a minimum of 150mm
- 59. How should the live line of rope pass through a wedge socket?
 - A. Live line to long part of socket / dead end of rope to short part of socket
 - B. Dead end to long part of socket / live line to short end
 - C. Does not make any difference rope will be secure
- 60. How often should operators check the hoist rope is running freely through Sheaves and hook block?
 - A. Daily
 - B. Every two hours
 - C. Weekly
- 61. The lower limit setting for your cranes hoist rope should be tested every day to ensure what?
 - A. You do not lower into mine shafts
 - B. To keep load bearing weight on hoist drum at all times
 - C. You do not strike the ground and damage your block
- 62. Depending on crane duty charts outriggers should be fully extended?
 - A. True
 - B. False
- 63. Are all cranes capable of free on wheels duties?
 - A. Depends on duty charts
 - B. Yes providing outriggers are kept close to the ground
 - C. Yes if in creep speed only



64. What does this hand signal indicate?



EMERGENCY STOP

- 65. If your crane is allowed free on wheels duties or rail mounted, where must the load be kept?
 - A. To the zone at the rear / side of the crane only
 - B. To the zone at the side / front of the crane only
 - C. Check crane duty charts
- 66. When working free on wheels what is the maximum angle of degrees offset to the line of travel you are allowed over front or rear of your crane?
 - A. 2 degrees
 - B. 3 degrees
 - C. 5 degrees
- 67. Cranes must only be used on firm level ground?
 - A. Only for heavy loads
 - B. True for all lifts
 - C. Check crane duty charts
- 68. How would you determine how much packing is required for under your outriggers?
 - A. Consult with manufactures
 - B. Consult crane duty charts
 - C. Any size of packing is better than none
- 69. What does this hand signal indicate?



OPERATIONS CEASE



70. The formula to determine area of packing for out riggers if ground bearing pressure is known

Crane +Load bearing pressure 20 t \div by ground bearing pressure 40 t = 0.5m^2 area of packing required = $\sqrt{0.5}$ =

$$20 \div 40 = 0.5\sqrt{=.707}$$

- A. .805
- B. .707
- C. .605

Packing must be a minimum of 750 mm x 750 mm

- 71. Radius is measured from the centre of rotation to?
 - A. Centre of load
 - B. Furthest edge of load
 - C. Nearest edge of load
- 72. What does this hand signal indicate?



HOIST UP

- 73. If your rated capacity Indicator does not work you should?
 - A. Stop all work until problem is fixed
 - B. Only lift light loads
 - C. Carry on using crane duty charts
- 74. If your hoist rope is kinked, what might you lift?
 - A. Light loads only
 - B. Heavy loads as it will take kink out
 - C. No loads
- 75. When moving a load it should be kept?
 - A. As low as possible
 - B. As high as possible
 - C. At a height consistent with load and work conditions



76.	Calculate area of packing required for you crane if the ground bearing pressure
	is 2 tons per square foot, weight of crane is 50 tons and weight of load is 22
	tons?

$$50 + 22 = 72 \div 2 = 36\sqrt{=6}$$

77. Calculate area of packing required for your crane if the ground bearing pressure is 13 T/m², weight of crane is 40 tons and weight of load is 12 tons?

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2m x 2m 40 + 12 = 52 ÷ 13 = 4\sqrt{2} = 2
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- 78. Where should outreach be measured from?
 - A. Nearest edge of crane structure to centreline of hook
 - B. Centre of rotation to nearest edge of load
 - C. Nearest edge of crane structure to nearest edge of load
- 79. If you are placing a load at height, can you lift the same weight as per duty charts for ground level?
 - A. True
 - B. False
- 80. When would it be important for crane operators to stop their job?
 - A. Banksman becomes unsighted
 - B. Radio com. has gone silent in a blind lift
 - C. None of above
- 81. If the operator increases the number of falls of rope what would happen to the hook block?
 - A. Increased load capacity
 - B. Increased hoist speed
 - C. Reduced hoist speed
 - D. Reduced load capacity
- 82. Automatic safe load indicators (ASLI) will only register?
 - A. On maximum 15% gradient
 - B. On firm level ground
 - C. On maximum 20% gradient
- 83. What should be fitted to the hoist system before the crane can lift personnel in a man-riding basket?
 - A. Power up power down
 - B. Hoist limiter
 - C. Automatic hoist brake / Dead man switch



- 84. If your crane is allowed to operate using a man-riding basket how often must your crane be thoroughly Inspected?
 - A. 6 months
 - B. 12 months
 - C. 4 years
- 85. Cranes with a rated capacity over 500 tonne need not be load tested every 4 years. In Accordance to BS7121 this work should be carried out every?
 - A. Year
 - B. Six months
 - C. Two years
- 86. Your crane is set up for work within a 6 km distance from an airport and the jib is working above 10 metres or above surrounding trees or structures what must your company do?
 - A. Look out for low flying planes
 - B. Consult with airfield manager
 - C. Place a flag on boom head
- 87. Your crane is to be set up on a highway. What must you ensure?
 - A. Police / local highways dept have been notified
 - B. Have appropriate documentation
 - C. Divert all pedestrian / vehicle traffic
- 88. If you slew your crane too quickly when the load is near maximum radius what might happen?
 - A. Load would swing out and increase radius resulting in crane overload
 - B. Load would swing in and increase crane capacity
 - C. Load would stay at same radius
- 89. When operating a crane in high-speed drive, what should you try to prevent?
 - A. Stopping beyond drop of point
 - B. Load swings, jib bounce and shock loading
 - C. Load swings
- 90. When adding an additional jib section this will alter the working radius and capacity?
 - A. True
 - B. False



- 91. Whilst you are operating you notice a thunderstorm approaching. What should you do?
 - A. Carry on working
 - B. Shutdown crane and move away from the vicinity of crane
 - C. Shutdown crane
- 92. If your crane has been struck by lightning whilst it has been shutdown. What safety measures are required before work commences?
 - A. Carry out a thorough examination of crane and equipment
 - B. Replace the batteries
 - C. Check safe working load Indicator is still operational
- 93. When tandem lifting your crane coordinator cannot evaluate the loads to be Imposed on each crane he should de-rate each crane by what?
 - A. 10%
 - B. 20%
 - C. 15%
- 94. The maximum load that can be safely lifted by the crane under specified conditions is called?
 - A. Capacity load
 - B. Minimum safe load
 - C. Safe working load
- 95. Instruments for measuring wind speeds are called?
 - A. Wind meter
 - **B.** Anemometer
 - C. Metro meter
- 96. Why is an automatic safe load Indicator fitted to a crane?
 - A. To provide a positive safe load indicator to the operator
 - B. An aid to the operator
 - C. A fail safe system
- 97. When working within the vicinity of a crane what warning would be given to operators and personnel if the crane were overloaded?
 - A. Amber light will come on with a bell ringing
 - B. Red light will come on with a bell ringing
 - C. Red light will come on



- 98. What action must be taken when the safe load Indicator bell is ringing and the red light is in operation?
 - A. Derrick in
 - B. Land the load
 - C. Both A and B
- 99. What is the safety factor of your crane's hoist rope?
 - A. 8 1
 - B. Between 4.5 6 to one
 - C. 2 1
- 100. According to British Standards cranes should be tested every 4 years, how should this be carried out?
 - A. Overload test by 50%
 - B. Crane load tested to ensure rated capacity indicator is accurate
 - C. Overload test by 25%
- 101. At what percentage will an overload limit switch or rated capacity Indicator stop the crane from working?

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A. 110% (Red light + external warning horn)
B. 112.5% (Will cut all critical accordance)
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- C. 95 97% (Amber light + internal warning horn)
- 102. For what purpose must the operator carry all test certificates relating to his/her crane and lifting tackle?
 - A. To look professional
 - B. To prove crane and tackle is currently in test date
 - C. To prove crane and tackle is in good working order
- 103. Outriggers and crane suspension units have locking pins when must they be engaged?
 - A. When the crane is set up to complete a lift
 - B. When travelling over rough ground
 - C. When free on wheel's duty
- You have to position an air conditioning unit weighing 1.5 tonne on the apex of a roof. The measurement along the side of the building to roof apex is 20 metres; Distance along the front of the building to centre of rotation is 10 metres calculate your radius?

A. 22 metres $+ = 500\sqrt{=22.3}$ **B. 22.3 metres**

C. 23 meter



105. Your jib length is 28 metres (to ground) and radius is 17metres too same point on ground what is the height of your lift?

$$X^2 = 28^2 - 17^2$$

 $X^2 = 784 - 289$

$$X^2 = 495$$

$$\sqrt{495} =$$

- A. 21 metres
- **B.** 22.2 metres
- C. 24 metres
- 106. How do you find out the ground compaction rate for the site you are operating on?
 - A. Ask the banksman
 - B. Ask the crane coordinator / site agent
 - C. Check crane duty chart
- 107. Crane counterweights require clearance from structures. What is the minimum requirement?
 - A. 600 mm
 - B. 200 mm
 - C. 800 mm
- 108. What is the name of the secondary lifting rope, which usually passes over the fly-jib?
 - A. Secondary rope
 - **B.** Auxiliary rope
 - C. Main hoist rope
- 109. What is the operational condition of the crane deemed to be in when subjected to an overturning moment, which cannot be increased by even a small amount?
 - A. Structural failure
 - B. Maximum rated load
 - C. Condition of tipping
- 110. What is the name for the bearings on which the crane rotates?
 - A. The slip ring
 - B. The slew ring
 - C. The centre line



- 111. In the work vicinity of a crane what is the collective name for overhead and underground services?
 - A. Site hazards
 - **B.** Operators hazards
 - C. Proximity hazards
- 112. To check the hoist brake is functioning properly you should?
 - A. Tap it with a hammer
 - B. Raise the load slightly and then apply the brake
 - C. Raise the load 10 feet and then apply the brake
- 113. When working at minimum radius with maximum load, what extra precaution must be taken when the load is landed?
 - A. The jib does not flip backwards
 - B. The load does not sink
 - C. The load does not tip over
- 114. Within the capacity of the crane, what do the number of falls of rope determine?
 - A. Safe working load
 - B. The load that can be lifted
 - C. Radius of load
- 115. What should you always consult before making a lift?
 - A. Rated capacity indicator
 - B. Load chart or duty chart
 - C. The radius indicator
- 116. When working on blocked duties what precautions should be taken relating to the outriggers?
 - A. That they are level
 - B. That they are extended correctly, fully supported and locked
 - C. That they are fully extended
- 117. Why would the maintenance service logbook be used?
 - A. To keep a record of all maintenance and repairs to crane
 - B. To keep a record of downtime of machine
 - C. To keep a record for the Health & Safety Executive only



- 118. Whilst operating your crane it became defective what would you do?
 - A. Fill out a defect report
 - B. Secure crane and report fault to supervisor
 - C. Carry on until a convenient break and report it
- 119. How often should your crane's maintenance be carried out?
 - A. Per manufacturers maintenance schedule
 - B. Only when you find a fault
 - C. Every six months
- 120. What should you use to lubricate and prevent rusting of your crane's hoist rope?
 - A. A mixture of diesel and grease
 - B. A proper formulated rope dressing
 - C. Silicone grease
- 121. When testing the load radius indicator how can we check for accuracy?
 - A. By using the test button
 - B. By checking duty charts
 - C. By measuring the distance from centre of rotation to vertical centre line of hook
- 122. Level plugs, sight glasses and dipsticks are often found on gearboxes for what purpose?
 - A. To check the temperature of gearbox
 - B. To check oil levels
 - C. To check viscosity of oil
- 123. When preparing your crane set up plan on site what hazards would you need to take into consideration?
 - A. Ground condition
 - B. Overhead / underground services
 - C. Vehicle movement + site / restrictions
 - D. Bridges (weight + height restrictions)
 - **E.** Surrounding structures
 - F. Dangerous materials
- 124. What would reduce the risk of hazards on a site?
 - A. Ensure correct personnel protective equipment is worn
 - B. Following company safety policy / method statements
 - C. Organize traffic control and erect warning signs
 - D. Good lighting



- 125. Why is it important that all crane operators/ banksman agree on the signal methods before lifting a load?
 - A. They do not have to it is not important
 - B. So they can work as a team
 - C. Safety of job
- 126. You are operating a static crane, which has a capacity of 5000kg at 20m. You have been asked to lift a load of 6000kg at 21m what should you do?
 - A. Refuse to lift as it is outside cranes capacity
 - B. Override limit switches
 - C. Lift load slightly of the ground and reduce radius of crane
- 127. Cranes and lifting equipment are involved in more serious accidents than any other type of construction equipment?
 - A. True
 - B. False
- 128. Crane and lifting equipment accidents are more costly in terms of insurance?
 - A. True
 - B. False
- 129. Cranes and lifting equipment are one of the major causes of construction site fatalities?
 - A. True
 - B. False
- 130. It is important to make sure work platforms; ladders and railings are kept secure. Why?
 - A. To keep site agent happy
 - B. For personnel safety
 - C. In case HSE inspectors visit the site
- 131. What is the purpose of counter weights fitted to your crane?
 - A. To counter act the weight of the jib
 - B. To counter act the weight of the jib +load
 - C. To counter act the weight of the load



- 132. When operating in confined air space with another crane what might the dangers be?
 - A. Jib striking other cranes load / hoist rope
 - B. Hoist rope of one crane catching counterweights of other crane
 - C. Both A and B
- 133. When should an overload limit switch be activated?
 - A. 2% after overload
 - B. 4% after overload
 - C. 5% after overload
- 134. How would you ensure overload safeguards are working properly?
 - A. Use test button (Test button only proves positive feed to system)
 - B. Known weight to a known location
 - C. Both A and B
- 135. What is the minimum thickness of timber you would use for the base layer of packing under an outrigger pad?
 - A. 20mm
 - **B.** 75mm
 - C. 90mm
- 136. When setting up a crane, would you place the top layer of packing in line with the outrigger pad or at right angles to the outrigger pad?
 - A. Inline
 - B. Right angles
 - C. Does not matter
- 137. In what position would you place a layer of outrigger packing to the previous layer of packing?
 - A. Right angles
 - B. In line
 - C. Does not matter
- 138. What would be the effects of overloading a crane?
 - A. Overturning
 - **B.** Structural damage
 - C. None of the above



- 139. Which has the greater bearing pressure, soft clay or dry sand?
 - A. Dry sand
 - B. Soft clay
 - C. Both the same
- 140. Your crane has a maximum lift capacity of 20 tonnes and a maximum number of 6 falls of rope. What's the maximum weight your crane can achieve with one fall of rope?
 - $20 \div 6 = 3.3$ tonnes per fall of rope
- 141. If a crane has a fly jib stowed on the main boom section, how would this affect the safe working load of the crane?
 - A. Increase because of more weight to ballast crane
 - B. There may be a reduction in the safe working load
 - C. Never operate with fly jib attached on side of main boom
- 142. How would you know if a hydraulic boom could be extended when lifting a load?
 - A. As specified by the load chart
 - B. As per banksman signals
 - C. Never extend boom
- 143. When using the front stabiliser under the chassis. What would the correct procedure be?
 - A. Retracted last and down first
 - B. Retracted first and extended last
 - C. No special way of extending / retracting
- 144. When your fly jib is15 degrees offset, if it was offset at 0 degrees, How would this affect your load?
 - A. Increase capacity
 - **B.** Decrease capacity
 - C. Stay the same
- 145. Your fly jib requires rated lifting capacities were would this information be found?
 - A. Ask Crane Co-ordinator
 - B. Check crane duty charts + angle of the fly jib
 - C. Call manufacture for assistance