

Goliath Snubbing Ltd Competency Knowledge Assessment - Operator 1

Operator 1 Knowledge Assessment

Unit 1 - Support crew training

Perform coaching

1. How do you encourage your crew to consistently ask questions about operations?
2. What action would you take if a worker exercised his right to refuse to do work that you have recommended?
3. What specific actions do you take to ensure that workers are clear about hazards on the job?
4. What actions do you take to make sure your crew members are fit for work each day?

5. What are the advantages to having each member of the crew cover a part of the safety meeting?

Unit 2 - Manage travel and logistics

Verify travel plans and logistics

6. What are examples of hazards discussed during the pre-trip safety meeting?
7. What should you do before heading out on a job?
8. How do you ensure crew has adequate time off between shifts?
9. If your assistant is sitting in the pickup on the way to location is he required to record it in his log book as on duty?

10. If your assistant is riding shotgun in the snubbing unit is he required to fill out his log book as on duty?
11. In a regular work day from hotel to location work all day and back to hotel how many hours are you not supposed to exceed before contacting management?
12. What are the maximum hours you not are allowed to exceed when working and driving the snubbing unit?

Navigate and manage travel en-route

13. What actions would you take if you are going into an area where communication is difficult?
14. What precautions do you take if you have park your vehicle overnight at a motel?
15. What are driver convoy responsibilities with respect to:
 - a. Speed
 - b. Night driving
 - c. Vehicle safety equipment
 - d. Unit communication
 - e. Mobile telephone
16. Which log book rules affect your travel plans?
17. What conditions warrant the installation of tire chains?
18. When driving up lease roads with kilometre markers, you are required to call out the kilometres as you go up or down. What is the process?

Unit 3 - Apply well-bore hydraulics

Identify well-bore parameters and perform calculations

19. How is Snub force calculated?
20. How do you determine when a pipe-light condition will happen?
21. What are some factors which will affect the accuracy of transitions calculations?

22. While snubbing in, why should an increase in well pressure be discussed with the wellsite supervisor?

23. While snubbing out, what could an increase in well pressure at surface indicate?

24. How many pounds of force equal a reading of 1 on the weight indicator?

25. How do you convert psi to kPa?

26. How many meters must any vehicle without an E-Kill be from the wellhead?

27. How many stabbing valves must be on location?

28. How much fluid will be displaced if you were to run 2000m of J-55 60.3mm tubing in 2500m of 114mm casing 20.9kg/m full of fluid?

29. You snub in 1000m of J-55 60.3mm tubing with 8000 kPa on the annulus. You then land the 7 1/16 tubing hanger and bleed off. Are you heavy or light?

30. You run in a string of J-55 60.3mm tubing 3500m deep, latch on to a WR Bridge plug. It takes 4 decks to un-set the packer; can you do this job safely?

Unit 4 - Conform to Industry recommended practice

Apply IRP 15 to equipment, operations and personnel

31. If you are conducting any pipe movement before sunrise or after sunset, what lighting requirements must be met?

32. When you are snubbing a BHA what restrictions apply to having a person in the derrick?

33. What position must primary and secondary pipe rams be in if the well has to be secured for a safety meeting?

34. If you have to secure the well for a break or a safety meeting, describe how you would set the primary and secondary pipe rams, casing valve and the bleed off procedure you would follow.

35. Which tubing plugs are acceptable on the different types of wells identified in IRP 15?

36. Before tripping out of the hole, what are your first steps after a tubing plug has been installed?

37. What safety measures do you perform when tripping/snubbing out a string of tubing where a permanent tubing bridge plug has been installed?

38. What are some devices which contribute to worker safety that need to be in place in operations involving multi-crew interaction?

39. When should the rule for a 15 hour work day (including travel time) be discussed?

40. What is the minimum rest period required for all crew members between working shifts?

41. What should you do if the task at hand develops into a situation outside your level of competence?

Unit 5 - Perform pre-job operations

Identify operational requirements

42. How do you ensure you have a clear picture of the snubbing program before you start planning for the job?

43. What information about well parameters do you need as you plan for the job?

44. What are the rules pertaining to the primary annular? What can and can't you do?

45. The primary pipe rams are used to secure the well. Is there ever a time that you are allowed to strip through them?

46. Why must you never break out a connection above a nipple with a plug in place?

47. When landing the tubing hanger, does your snubbing unit KB matter?

48. When spacing out tools on a snubbing unit, the snubbing unit KB is measured against the drilling rig KB. Do you add or subtract the difference to the tubing string?

Prepare, organize and load equipment

49. If you require extra spools for the job, what else is required?

50. On a tandem axle truck on a 75% road ban, how much weight can you legally weigh on rear axles?

Conduct on-site preparation

51. What are your personal responsibilities during the pre-job safety meeting?

52. What are some examples of lease hazards to check for before driving onto location?

53. What must be documented during the Snubbing pre-job safety meeting?

54. What signatures would you need on a Snubbing pre-job safety meeting report before you would commence with the job?

55. When must a new safety meeting be held and documented?

Conduct rig up operations

56. Which items do you and your crew observe to be in place before start of rig up?

57. Where do you position workers while performing rig up operations and what are their responsibilities in these places?

58. Which unit specifics should be discussed with the rig crew prior to the rig up?

59. What value is it to you to check the accuracy of the rig's weight indicator once the unit is hanging in the elevators?

60. On a Rig Assist, once the p/u nubbin is latched into the elevators, what must be done next?

61. On a single service Rig, when picking up the snubbing unit the monkey board is a big hazard. What equipment is used to ensure the service rig's blocks don't get hung up in the monkey board?

Unit 6 - Perform post-job operations

Conduct rig out operations

62. After landing a tubing hanger, what steps do you take to ensure it is installed properly? What precautions do you take while doing this?

63. What steps do you take when snubbing out, to ensure the bottom of the string is above the blind rams, before attempting to close the blind rams?

64. Should you have a tail-gate meeting before rigging out the unit? Should this be documented in your daily safety meeting report?

65. Which items would you double check to ensure they are disconnected before picking the unit off the wellhead:

66. What responsibilities would you assign to your crew members to ensure with a safe rig-out?

67. What should you do before moving the truck and unit away from the wellhead? Where should spotters be positioned?

68. What is the easiest way to resolve on-site conflicts if the wellsite supervisor will not sign the ticket or has personnel, equipment or cost concerns?

Identify and perform post job maintenance

69. What key items should be inspected upon completion of all jobs?

70. Why should the unit be washed after every job if possible?

71. What items should be included in your conversation with the consultant at job completion?

Complete administrative requirements

Horizontal lines for writing answers to questions 48-71.

72. What documentation should be submitted to the office as soon as possible after the job is finished?

73. What documentation must be completed before leaving location?

Unit 7 - Perform single and dual zone workovers and completions

Perform program requirements

74. Why should you confirm the BHA with the wellsite supervisor prior to rig up?

75. What parameters may change between the call to dispatching personnel and your arrival on location which may impact your ability to complete the job safely and efficiently?

76. What could you discover on location which may force a decision to not rig up?

77. What is the procedure to recommend to a wellsite supervisor for removing a tubing end plug after the wellhead has been installed?

78. If the job scope in the morning looks like its going to take you in to the evening, when should you inform the oil company rep you will need light towers, and how many ?

79. When talking to the oil company rep and he tells you the tubing string is full of frac fluid, what should you recommend prior to swabbing?

80. What's the main difference between an Otis plug and a Baker plug?

81. When installing a slip stop where would you find it in the string?

Assemble Bottom Hole Assembly (BHA) and equipment

82. What length of tubing should you insist on be below a tool to be staged in the well?

83. When tools are assembled on the catwalk, how can you confirm proper torque?

84. What is the difference between selective and non-selective profile nipples?

85. Where should an X nipple be positioned in relation to an XN nipple?

86. Where is the blast joint placed in the annulus?

87. Where would you find a profile in a sliding sleeve

88. If you were pulling out a packer with two short pups below in the middle of a string what options do you have in getting it out safely?

Conduct program operations

89. What should be installed in the tubing before raising the string after tagging an obstruction downhole?

90. What could cause a packer to set up prematurely when tripping in the hole?

91. What could the impact be if the tools set up while snubbing if the operator didn't observe the packer setting up prematurely?

92. Who should you confirm the unsetting procedure for the packer with, if the pipe does rotate? Could this be discussed in the pre job safety meeting?

93. What procedure if followed correctly would mitigate the risk of tubing failure in this event?

94. If well file/program is incomplete, what steps should be taken when bringing out the bottom hole assembly?

95. When snubbing out a sliding sleeve, what steps should be taken to ensure sleeve is closed prior to exposing to atmosphere?