

COGODR13 - SQA Unit Code D7WX 04

Carry out tripping operations in drilling



Overview

This unit is about the tripping of tubulars into and out of the hole and includes the assembly and use of different sorts of handling equipment. This unit deals with the following:

- 1 Organise The Handling Equipment For Tripping Operations
- 2 Trip Tubulars Into And Out Of The Hole

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Performance criteria

- You must be able to:*
- P1 obtained a clear specification of the tubulars to be run into or pulled out of the hole and the handling **equipment** that will be needed
 - P2 ensured that the necessary utilities and consumables are available on the drill floor for the handling equipment to be used
 - P3 selected the appropriate handling equipment for the work to be done and assembled it at the work site
 - P4 checked and confirmed that the handling equipment to be used is fit for the work to be done
 - P5 changed out and prepare the handling equipment as necessary according to the planned operation
 - P6 taken prompt action to deal with and report any equipment defects and deficiencies
 - P7 established and maintained clear communications with all persons working on the drill floor
 - P8 assisted the movement of tubulars to and from the set back area in a controlled and safe manner
 - P9 positioned the tubulars in the right place at the right time for efficient operations
 - P10 made up and broken out tubular connections safely, handling and operating the tongs correctly
 - P11 made up and broken out Bottom Hole Assembly (BHA) and drill pipe in line with the instructions received
 - P12 promptly carried out your assigned role in kick drills
 - P13 promptly, clearly and accurately informed the driller of any circumstances which may affect the tripping operation
 - P14 checked and applied dope to the tool joint threads as necessary
 - P15 worked safely in accordance with operational requirements and associated **Safe Systems of Work**

Knowledge and understanding

You need to know and understand:

- K1 what the function, limitations and operating principles are of handling equipment used in tripping operations
- K2 how to recognise defects in handling equipment
- K3 safe lifting and manual handling techniques
- K4 when and how to change the handling equipment for different sizes of tubulars
- K5 current practices and procedures relating to the inspection and maintenance of drill floor equipment
- K6 why it is important to maintain good standards of housekeeping on the drill floor
- K7 what techniques are used to make up and break out tubular connections safely and without damage
- K8 how to identify damage to tubulars which may affect the smooth running of drilling operations
- K9 what circumstances should be reported to the supervisor including incorrect pipe numbering; equipment faults; potentially hazardous occurrences; damaged tool joint threads
- K10 what equipment must be kept in place for a potential kick
- K11 what considerations must be given towards encountering H₂S
- K12 what measures must be taken to clear up and contain mud losses on the drill floor
- K13 what considerations must be given to the hazards related to the following drilling fluids including brine (heavy and light); water based mud; non-water based mud
- K14 what system is used for the numbering of stands
- K15 why it is important for health and safety to use safe lifting and manual handling techniques

Additional Information

Scope/range

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

- 1 How to use 'Safe Systems of Work' processes to identify hazards and mitigate or reduce risks to as low as reasonably practicable (ALARP)
- 2 How to select, use and care for PPE (to include sight/hearing protection, coveralls, coveralls, gloves, footwear, hard hats, respirators)
- 3 The implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- 4 How to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards, schedules)

The following terms in **bold** relate directly to those shown in **bold** in the Performance Statements.

- 1 **Equipment** must include dog collars/safety clamps; elevators (drill pipe and drill collar); lifting subs and caps; mud bucket; safety valve; slips; tongs; tools
- 2 **Safe Systems of Work** must include processes or systems that incorporate Hazard Identification, Risk Assessment, Permit to Work and any other associated systems.

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