

COGODR14 - SQA Unit Code D7WY 04

Contribute to casing and tubing in drilling operations



Overview

This unit is about providing assistance to the running of casings and tubings of different sizes and includes the rigging up and down of the handling equipment prior to and after the job. This unit deals with the following:

- 1 Organise The Handling Equipment For Casing And Tubing Operations
- 2 Assist In The Running Of Casings And Tubings

Performance criteria

- You must be able to:*
- P1 obtained get a clear specification of the handling equipment, utilities and consumables needed for the **job**
 - P2 confirmed that the necessary utilities and consumables are available and in position on the drill floor
 - P3 given effective assistance in siting and rigging up the handling equipment to its utilities and in rigging down on completion of the job
 - P4 ensured that the handling equipment and utilities needed for picking up and receiving **tubulars** onto the drill floor are rigged up
 - P5 taken prompt action to deal with and report any equipment defects and deficiencies
 - P6 obtained a clear specification of how the task will be carried out and the personal responsibilities they will hold
 - P7 established and maintained clear communications with all persons working on the drill floor
 - P8 safely and efficiently received the tubulars and subs through the v-door onto the drill floor
 - P9 worked effectively with others to transfer the tubulars and subs into the elevators
 - P10 worked effectively with others to make up the tubulars and subs into the string
 - P11 positioned, made up and run casings joints safely and efficiently, using equipment appropriate for the size of casing
 - P12 followed instructions accurately and efficiently during the changeover from hand to power elevators and slips
 - P13 maintained the level of the drilling fluid within the string, using the fill up line safely and efficiently
 - P14 taken prompt action to deal with and report any equipment defects and deficiencies
 - 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 casing and tubing operations
- K2 how to recognise defects in handling equipment
- K3 which types of the following consumables need to be in place for running casing and tubing including rope; grease or dope; brushes
- K4 why, when and how the changeover from hand slips/elevators to power slips/elevators is made
- K5 the checks and preparations needed when using the following for running casing and tubing including lift gear; protectors; centralisers; stabbing valve and board; hand tools
- K6 what safety considerations are needed when working with power tongs and elevators
- K7 what the basic maintenance requirements are of handling equipment used in casing and tubing operations
- K8 why it is important to maintain good standards of housekeeping on the drill floor
- K9 what techniques are used to make up shoe tracks and casings and tubings safely and without damage
- K10 what contingency measures need to be put into place to close in the well
- K11 what circumstances should be reported to the supervisor, including equipment faults; potentially hazardous occurrences; damaged joint threads
- K12 handling considerations relating to the safety valves; sliding sleeve; landing nipples; cross overs; packers; pup joints; tubing hangers; shoe; float; centralisers
- K13 why, when and how the changeover from hand slips/elevators to power slips/elevators is made
- K14 why it is important to maintain good standards of housekeeping on the drill floor
- K15 what are the handling implications of different sizes of casing and tubing
- K16 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 **Job** must include assisting in the preparations for running or pulling casing and tubing using bail arms; bushings; fill up lines; pick up elevators; side door or YC elevators; slips and dog collars
- 2 **Tubulars** must include those below 7" diameter and those of 30"; 20"; 13 3/8"; 9 5/8"; 7"
- 3 **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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