



Australian Government

Department of Education, Employment and Workplace Relations

RIIOGD402A Participate in nippling-up and pressure test

Release: 1

RIIOGD402A Participate in nippling-up and pressure test

Modification History

Not applicable.

Unit Descriptor

This unit covers participating in nippling-up and pressure testing in the drilling industry. It includes planning and preparing for nippling up and pressure testing, and pressure testing during intermediate and/or main holes. Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Application of the Unit

This unit is appropriate for those working in a supervisory role or as a technical specialist, at worksites within:

- Drilling

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

| | |
|---|--|
| Elements describe the essential outcomes of a unit of competency. | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide. |
|---|--|

Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|---|--|
| 1. Plan and prepare for nippling-up and pressure testing | 1.1. Access, interpret and apply <i>compliance documentation</i> relevant to the work activity 1.2. Obtain, confirm and apply <i>work instructions</i> for the allocated task and identify required <i>equipment</i> 1.3. Identify, manage and report all potential <i>hazards</i> 1.4. Resolve <i>coordination requirements</i> with others at the site prior to commencing and during work activities 1.5. Check and adjust casing bowl and position level as required 1.6. Perform BOP test as per operator's written instructions 1.7. Carry out rig-up to drill-out operations in accordance with parameters and specifications 1.8. Carry out pressure tests prior to drilling out and <i>record</i> in tour book |
| 2. Pressure testing during intermediate and/or main holes | 2.1. Confirm pressure test program/timing and comply with procedures 2.2. Check cup testers and plugs for sizing and integrity 2.3. Monitor and maintain stack within deviation limit 2.4. Adhere to safety practices during pressure test operations. |

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to participate in nippling-up and pressure testing:

- apply legislative, organisation and site requirements and procedures for nippling-up and pressure testing
- manage and monitor rippling up and pressure testing within a team environment
- delegate
- administer good communication skills
- problem solve
- plan for all circumstances
- use hand tools correctly
- perform a range of numerical calculations including:
 - volume
 - quantities
 - mass
 - weight
 - length
 - pressure
 - using calculator if required
 - using estimating skills (e.g. mental arithmetic, visualisation of size and quantity)
 - basic geometry (e.g. interpreting depth, direction, angles)
 - use of metric and imperial and conversion between the two

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to participate in nippling-up and pressure testing:

- high pressure lines requiring pressure testing
- understanding of test equipment
- testing procedures
- operations of a hydraulic torque wrench
- rig maintenance procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

| | |
|---|--|
| Overview of assessment | |
| Critical aspects for assessment and evidence required to demonstrate competency in this unit | <p>The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for nipping-up and pressure testing • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of nipping-up and pressure testing • working with others to plan, prepare and conduct nipping-up and pressure testing • evidence of the consistent successful participation in nipping-up and pressure testing |
| Context of and specific resources for assessment | <ul style="list-style-type: none"> • This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery |

| | |
|--|---|
| | <p>environment to sensitively accommodate cultural diversity.</p> <ul style="list-style-type: none"> • Aboriginal people and other people from a non English speaking background may have second language issues. • Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required. |
| Method of assessment | <p>This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • working with others to undertake and complete nippling-up and pressure testing • provision of clear and timely instruction and supervision by the individual of those involved in participation in nippling-up and pressure testing |
| Guidance information for assessment | <p>Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.</p> |

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

| | |
|---|---|
| <p>Relevant compliance documentation may include:</p> | <ul style="list-style-type: none"> • legislative, organisational and site requirements and procedures including: <ul style="list-style-type: none"> • Petroleum Submerged Lands Act (PSLA) • Duty of Care • environmental guidelines • operator's instructions • specifications • drilling program • occupational health and safety documents • materials safety data sheets(MSDS) • Job Safety Analysis (JSA) • relevant safety alerts • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation |
| <p>Work instructions may come from briefings, handovers, plans and work orders and may be written or verbal, formal or informal and may include:</p> | <ul style="list-style-type: none"> • communication through: <ul style="list-style-type: none"> • pre-job • pre-tour • safety meeting • handover with oncoming driller • 2-way radio • hand signals • telephone • public address system • written work instructions • internet and intranet • nature and scope of tasks • specifications • quality of finished works |

| | |
|---|---|
| | <ul style="list-style-type: none"> • achieved targets • operational conditions • obtaining of required permits • site layout • out of bounds areas • worksite inspection requirements • lighting conditions • plant of equipment defects • coordination requirements or issues • contamination control requirements • environmental control requirements • barricade and signage requirements |
| Equipment may include: | <ul style="list-style-type: none"> • gaskets • hand tools • wrenches • cleaning materials |
| Hazards may include: | <ul style="list-style-type: none"> • working in proximity to drilling rig • working in different conditions including: <ul style="list-style-type: none"> • night time operations • day time operations • hot climates • cold climates • wet weather conditions • high wind |
| Coordination requirements may include: | <ul style="list-style-type: none"> • other equipment operators • maintenance personnel • supervisors • site personnel |
| Record may include: | <ul style="list-style-type: none"> • results of pressure testing • other test results as required • hazard observation reports |

Unit Sector(s)

Drilling (Oil and Gas)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.