



Australian Government

Department of Education, Employment and Workplace Relations

RIIOGD303A Trip pipe

Release: 1

RIIOGD303A Trip pipe

Modification History

Not applicable.

Unit Descriptor

This unit covers the tripping of pipes in the drilling industry. It includes planning and preparing for operations, preparing to trip tubulars, tripping tubulars, and operating racking systems. 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 an operational role 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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for operations	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Obtain, confirm and apply work instructions for the allocated task 1.3. Identify, manage and report all potential hazards 1.4. Identify, locate and apply personal protective equipment 1.5. Resolve coordination requirements with others at the site prior to commencing and during work activities and ensure briefings/handover details are read/passed on 1.6. Confirm availability and status of necessary permits to work in accordance with operational and legislative requirements 1.7. Confirm availability of necessary third party utilities in accordance with operational requirements 1.8. Check safety lines, ropes and air hoists 1.9. Check equipment for safety and operations
2. Prepare to trip tubulars	2.1. Line up trip tank 2.2. Prepare pipe racking system to stand back, run in, lay down or pick-up pipe, where applicable
3. Trip tubulars	3.1. Latch elevators on to the tubulars which is stabilised by the derrickman while being stabbed by pulling out of the hole 3.2. Latch elevators on to the tubular which is being stabilised by the derrickman while running into hole 3.3. Visually check the elevator latch, identify faults and report 3.4. Operate air hoist to manoeuvre tubulars in the derrick 3.5. Record tasks where required
4. Operate racking system	4.1. Release pipe from elevators and rack in proper position when pulling out of the hole 4.2. Latch elevators onto drill string and

	stabilise while stand stabbed by roughnecks when running in the hole 4.3. Operate air hoists which manoeuvre drill string in the derrick
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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 trip pipes:

- apply legislative, organisation and site requirements and procedures for tripping pipes
- interpret site requirements and procedures
- interpret work requirements
- prepare pill
- put trip tank on line and fill
- check safety lines, ropes and air hoists
- stand back, run in, lay down and pick up pipecracker
- release pipe from elevators
- latch elevators on drill string and stabilise
- operate air hoists
- operation of a manual or automated racking system

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 trip pipes:

- legislative, site and manufacturer's requirements and procedures
- drilling operation
- company and statutory safety guidelines, procedures and practices
- safe operating procedures when operating equipment
- hand signals
- working knots
- rig maintenance
- types and characteristics of discharges including liquids, gases and solids
- types and characteristics of materials including flammable, toxic, corrosive, explosive and radioactive
- normal drilling operations
- non-routine drilling operations
- man management/rig management

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	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: • knowledge of the requirements, procedures and instructions for tripping pipes • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of pipe tripping • working with others to undertake and complete the tripping of pipes that meets all of the required outcomes • consistent timely completion of pipe tripping that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• 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 environment to sensitively accommodate

	cultural diversity. • 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	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: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • 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: • working with others to undertake and complete the tripping of pipes
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

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.

Relevant compliance documentation may include:

- legislative, organisational and site requirements and procedures
- manufacturer's guidelines and specifications
- Australian standards
- code of practice
- Employment and workplace relations legislation
- Equal Employment Opportunity and Disability Discrimination legislation
- duty of care
- environmental protection requirements
- Petroleum Submerged Lands Act (PSLA)
- petroleum regulations

Work instructions may come from briefings, handovers, plans and work orders and may be written or verbal, formal or informal and may include:

- nature and scope of tasks
- specifications
- quality of finished works
- 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
- safety equipment including fire protection, First Aid and safety harnesses
- contamination control requirements
- environmental control requirements
- barricade and signage requirements
- information received through communication methods including:
 - 2-way radio
 - intercom
 - telephone

	• written instruction • oral instruction • hand signals • public address system • consideration of toxic substances • continuous communication • reacting to on-site emergencies
Hazards may include:	• working in proximity to drilling rig • weather conditions including: • day/night • storms - high winds and lightning • hot/cold • wet/dry (dusty)
Personal protective equipment may include:	• eye protection • hearing protection • gloves • footwear • hard hats • respirators • fall arrester
Coordination requirements may include:	• other equipment operators • maintenance personnel • supervisors • site personnel
Briefings/handover details may include:	• maintain and check pipe tally • preparation of derrick/floor equipment • line up trip tank/preparation of mud system • review of PTW requirements • pre-tour safety meeting • review of Job Safety Analysis (JSA) • safety briefing/induction • weekly safety meetings • agreed procedures may include: • company • facility • client • toolbox • permit to work
Record may include logging:	• pipe tally sheets

Unit Sector(s)

Drilling (Oil and Gas)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.