



Australian Government

Department of Education, Employment and Workplace Relations

RRIOGD201A Assist in maintaining rig safety and emergency procedures

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers assisting in maintaining rig safety and emergency procedures in the drilling industry. It includes planning and preparing for maintaining rig safety and emergency procedures, assisting in securing rigs for cyclones, rig moving or emergencies, participating in fire drills, and demonstrating safe working procedures. 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 assistant 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 maintaining rig safety and emergency procedures	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 and conform to safe working practices 1.4. Resolve coordination requirements with others at the site prior to commencing and during work activities and ensure briefings/handover details are read/passed on 1.5. Identify developing, emerging and existing critical situations and take actions appropriate to the situation 1.6. Activate relevant alarms in accordance with operational requirements 1.7. Take actions to control and alleviate the situation in accordance with operational and legislative requirements 1.8. Monitor the situation and take relevant actions to minimise risks to personnel, environment, process, plant and equipment. 1.9. Maintain reporting requirements in the event of a critical situation in accordance with safety management systems
2. Assist in securing rig for diverse weather conditions, rig moves or emergencies, as directed	2.1. Identify, analyse, clarify and confirm communication requirement and act on in accordance with company policies and procedures 2.2. Access, interpret, apply and maintain communication and information systems in a current and accurate state
3. Participate in fire drills	3.1. Recognise, activate and comply with fire alarm signals 3.2. Obtain and wear emergency personal protective equipment (including breathing apparatus and fear nought suit) as appropriate 3.3. Assist with operation of fire fighting equipment (portable extinguishers and fire

	hoses and nozzles) according to manufacturer's and site procedures 3.4. Identify and comply with fire team responsibilities and assigned fire station 3.5. Apply boundary cooling procedures and emergency ventilation shutdown procedures, where appropriate 3.6. Follow emergency muster and evacuation procedures if required
4. Demonstrate safe working procedures	4.1. Obtain and wear personal protective equipment, appropriate to task 4.2. Set and pull manual slips correctly 4.3. Operate make-up and break-out manual tongs correctly 4.4. Move drill floor drilling tools and equipment in accordance with company and <i>statutory operating procedures</i>

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 assist in maintaining rig safety and emergency procedures:

- apply legislative, organisation and site requirements and procedures for assisting in maintaining rig safety and emergency procedures
- set and pull manual slips
- operate manual make-up tongs
- operate manual break-out tongs
- operate portable extinguishing equipment
- move drills, tools and equipment around drill floor
- wear correct protective clothing for the execution of duties and tasks
- assist in the risk assessment of a manual handling task
- demonstrate correct manual handling technique
- correctly apply and use the permit to work and lock out procedure
- act as chairman of safety meeting
- report regularly to derrickman on equipment condition
- activate alarms
- make announcement on the public address system (PA)
- proceed to muster point
- don emergency gear (e.g. fire suit, life jacket)
- operate specific pieces of fire fighting, life saving and emergency equipment
- follow instructions
- determine wind direction
- assist carrying injured person in stretcher

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 assist in maintaining rig safety and emergency procedures:

- occupational health and safety obligations
- company and statutory guidelines, procedures and practices
- emergency procedures
- permit to work system
- bop, gas and fire alarm signals
- assigned fire station

- location and use of safety equipment, including fire protection and First Aid
- types of spillages, including flammable, toxic and pollution, and appropriate responses
- types of discharges, including liquids, gases and solids
- types of material, including flammable, toxic, corrosive, explosive and radioactive
- normal drilling operations
- non-routine drilling operations
- man management/rig management
- rig emergency procedures as per station drill
- emergency duties
- location of alarm stations
- identify alarm signals
- life raft launching procedure (where appropriate)
- fire team procedures
- fire, emergency and lifesaving equipment appropriate to the incident
- survival craft boarding procedures (where appropriate)
- location of muster points
- means of evacuation

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 assisting in maintaining rig safety and emergency procedures • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of assisting in maintaining rig safety and emergency procedures • working with others to undertake and complete the maintenance of rig safety and emergency procedures that meets all of the required outcomes • consistent timely completion of assisting with rig safety and emergency procedure maintenance 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 maintenance of rig safety and emergency procedures
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
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 • contamination control requirements • environmental control requirements • barricade and signage requirements
Report potential hazards may include:	• oral • written • hazard observation reports • rig safety audits
Hazards may include:	• working in proximity to drilling rig • working in different weather conditions including: • extreme heat • extreme cold • wet weather - muddy conditions

	• dust storms • high winds/cyclone • day/night
Working practices may include:	• individual operation • team operation • use of personal protective equipment • consideration of toxic substances (e.g. H2S) • continuous communication maintained • reacting to on-site emergencies • risk assessment/Job Safety Analysis (JSA)
Coordination requirements may include:	• other equipment operators • maintenance personnel • supervisors • site personnel
Briefing/handover details may include:	• toolbox safety meeting • task specific - Job Safety Analysis (JSA) • pre-tour safety meeting • post drill critique • safety briefing/induction • weekly safety meetings • agreed procedures may include but are not limited to: • company • facility • client • permit to work • work inspection • location of potential hazards • PTW system
Critical situations may include:	• operational difficulties, equipment/systems failure • extreme weather, poor visibility • equipment failure • leaks • kicks • gas and collision • escape and evacuation • man-overboard (where relevant) • helicopter emergency • oil • general emergency

	• communications failure • blocked escape routes • loss of chain of command • loss of structural integrity • loss of stability • vessel movement (where relevant) • fire/smoke/explosions • injured personnel • well control
Actions may include:	• make safe • isolate • shutdown • evacuate work area • report • record • contain • rectify • proceed to muster point • follow instructions • prevent escalation • make safe
Alarms may include:	• audible • warning gestures • oral warnings • fixed system specific to installation
Safety management systems may include:	• organisational • installation
Communication may include:	• 2-way radio • intercom • telephone • hand signals • special signals for use with lifeline • public address system • written work instructions
Personal protective equipment may include:	• safety helmet • safety footwear • safety glasses • gloves • riding belt • safety belt • life vest

	• safety goggles • H2S gas analyser equipment • respirators
Statutory operating procedures may include:	• State Occupational Health and Safety Acts and Regulations • code of practice • Commonwealth Legislation • Australian standards • (PSLA) Petroleum Submerged Lands Act (as relevant) • duty of care • environmental • Station Bill (international requirement) • petroleum regulations

Unit Sector(s)

Drilling (Oil and Gas)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.