



Australian Government

Department of Education, Employment and Workplace Relations

RIIERR304A Control emergencies and critical situations

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers controlling emergencies and critical situations in the oil and gas drilling industry. It includes: planning and preparing for operations; controlling critical situations; and coordinating the response to emergencies.

Application of the Unit

This unit is appropriate for those working in operational roles, at worksites, within:

- Oil and Gas 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 operations	1.1. Access, interpret and apply compliance documentation relevant to controlling emergencies and critical situations 1.2. Obtain, confirm and apply work instructions for the allocated task 1.3. Identify, manage and report all potential hazards 1.4. Resolve coordination requirements with others at the site prior to commencing and during work activities
2. Control critical situations	2.1. Identify developing, emerging and existing critical situations and take actions appropriate to the situation 2.2. Activate relevant alarms 2.3. Take actions to control and alleviate the situation 2.4. Recognise symptoms/effects of contaminants, toxic materials and heat stress and take appropriate action 2.5. Monitor the situation and take relevant actions to minimise risks to personnel, environment, process, plant and equipment 2.6. Maintain reporting requirements in the event of a critical situation
3. Coordinate the response to emergencies	3.1. Identify developing, emerging and existing critical situations and take actions appropriate to the situation 3.2. Activate relevant alarms 3.3. Give information and instructions clearly, accurately and in a suitable format for the needs of relevant personnel 3.4. Clarify and act upon advice received as appropriate to the situation 3.5. Adhere to agreed emergency procedures 3.6. Record information on relevant documentation accurately, completely and legibly 3.7. Take immediate action to make the situation safe and minimise risks to personnel, environment, process, plant and

	equipment
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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 in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to control emergencies and critical situations:

- apply legislative, organisation and site requirements and procedures
- implement personal protection requirements appropriate to the environment
- recognise effects of changes of ambient conditions on operations
- locate sources of information and interpret drawings and manuals
- operate equipment

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to control emergencies and critical situations:

- occupational health and safety obligations
- company and statutory guidelines, procedures and practices
- emergency procedures
- evacuation procedures and personnel responsibilities
- fire and gas control system
- alarm system
- emergency shutdown control system
- effects of loss of any system upon the operation
- functioning of process control, including instrumentation
- equipment layout and its connection with other systems
- consequences of emissions to the environment
- operating parameters and tolerances
- rig maintenance
- 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 controlling emergencies and critical situations • implementation of requirements, procedures and techniques for the safe, effective and efficient control of emergencies and critical situations • working with others to respond to emergencies and critical situations that meet all of the required outcomes • consistent timely controlling of emergencies and critical situations 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. • 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. • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • 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 • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to respond to emergencies and critical situations
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, organisation 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, toolbox meetings, handovers, plans and work orders and may be written or verbal, formal or informal and may include:	• potential hazards • personal protective equipment requirements • consideration of h₂s and other toxic substances • communication requirements • Job Safety Analysis (JSA) • emergency and critical situation response procedures • agreed procedures may include: • company • facility • client
Reports may include:	• hazard observation reports • rig safety audits
Coordination requirements may include:	• other equipment operators • maintenance personnel • supervisors • site emergency response personnel
Critical situation may include:	• operational difficulties • extreme weather • equipment failure • leaks • fires • kicks
Alarms may include:	• audible • warning gestures

	• oral warnings • fixed system specific to installation
Actions to control and alleviate critical situations may include:	• make safe • isolate • shutdown • evacuate work area • report • record • contain • rectify
Reporting requirements may include:	• oral • written
Immediate actions may include:	• inform external services • do nothing • activate internal emergency response teams • inform duty personnel • inform adjacent facilities • activate ESD • account for people • evacuate • assist in rescue of personnel

Unit Sector(s)

Emergency Response and Rescue

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.