



Australian Government

RIIOGD305E Apply blow out prevention operational procedures

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to apply blow out prevention (BOP) operational procedures in coal mining and drilling. It prepares individuals to apply well control strategies, coordinate crew activities, operate and monitor equipment and processes and apply well kill procedures.

This unit applies to those working in supervisory roles. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

Drilling

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to apply BOP operational procedures	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to apply BOP operational procedures and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for

ELEMENT	PERFORMANCE CRITERIA
	work activities 1.5 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received
2. Apply well control strategies	2.1 Apply approved methods to control identified hazards associated with well control 2.2 Recognise, respond to and report as required early warning signs of kicks and wells going under-balanced 2.3 Recognise kick indicators and apply kick detection methods and responses as required 2.4 Operate equipment to control swabbing and surging 2.5 Apply tripping methods according to site requirements 2.6 Perform shut-in procedures for drilling or well servicing and well tripping-in/out 2.7 Apply requirements and regulations related to well control and influx prevention 2.8 Prepare written records and reports according to workplace procedures
3. Coordinate well control crew activities	3.1 Inform assistants of their roles and responsibilities in a well control situation and monitor their application 3.2 Communicate operational activities and information to other crew during well control and BOP operations 3.3 Conduct well control drills and exercises and confirm crew readiness for emergency situations
4. Operate and monitor well control equipment and processes	4.1 Verify availability and set-up of well control equipment 4.2 Inspect well control equipment for safety and fitness-for-purpose and rectify and report faults and malfunctions as required and within scope of own role 4.3 Install, test and operate well control equipment 4.4 Monitor, read and interpret measuring and testing equipment and devices and confirm planned, safe well control 4.5 Assist in installation, maintenance and replacement of equipment
5. Apply well kill procedures	5.1 Confirm well control procedures and activities with crew members 5.2 Check, read, interpret and record pressures and gauges and undertake corrective action as required 5.3 Apply operational instructions 5.4 Apply well control working practices 5.5 Apply well control kill methods

ELEMENT	PERFORMANCE CRITERIA
	5.6 Monitor and adjust the operation of BOP control system 5.7 Monitor and control circulation and circulation paths 5.8 Carry out emergency shutdown procedures according to site requirements 5.9 Communicate incident information to other crew members
6. Conduct housekeeping activities	6.1 Clean, check, perform maintenance on and store plant, tools and equipment 6.2 Report issues identified with plant, tools and equipment as required

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	Identifies and interprets information from workplace procedures, documentation and regulations
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIIOGD305D Apply blow out prevention operational procedures.

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIOGD305E Apply blow out prevention operational procedures

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- apply blow out prevention (BOP) operational procedures on at least two occasions, including:
 - applying kick detection methods and responses
 - confirming well control procedures and activities with crew members
 - conducting drills and exercises with crew in readiness for emergencies
 - inspecting well control equipment for safety and fitness-for-purpose
 - installing, testing, operating and monitoring well control equipment
 - applying well kill methods
 - identifying and recognising kick indicators
 - identifying the effects of swabbing and surging
 - carry out supervision of BOP operational procedures.

During the above, the candidate must:

- locate and apply documentation, policies and procedures required to apply BOP operational procedures
- implement the requirements, procedures and techniques for applying BOP operational procedures, including:
 - identifying, addressing and reporting potential hazards and risks
 - identifying, addressing and reporting environmental issues
 - preparing written records and reports
 - rectifying any identified faults and malfunctions within scope of own role and escalating where required
- work with others to apply BOP operational procedures that meets required outcomes, including:

- resolving coordination requirements with others at the site prior to commencing and during work activities
- preparing for and organising work activities to meet all task requirements
- communicating with others to receive and clarify work instructions.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and established requirements for applying BOP operational procedures, including those for:
 - identifying and managing risks
 - identifying, addressing and reporting environmental issues
 - setting up work activity
 - site isolation, signage and erecting barriers
 - work health and safety
 - selecting and checking plant, tools and equipment required to carry out tasks for faults
 - carrying out work to specifications
 - applying required methods to control identified hazards
 - applying technical solutions for well control
 - delegating roles and responsibilities of assistants
 - maintaining well control equipment
 - responding to emergency situations.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to apply BOP operational procedures
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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