



Australian Government

RIIOGD205E Support blow out prevention operations

Release: 1

RIIOGD205E Support blow out prevention operations

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 support blow out prevention (BOP) operations in coal mining and drilling. It prepares individuals to monitor and report BOP safety issues and assist in emergency procedures.

It applies to those working in operational roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

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 for operations	1.1 Obtain, read and confirm work requirements 1.2 Access, interpret and apply BOP documentation 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 the personal protective equipment required for work activity 1.5 Communicate with other personnel on site as required and confirm briefings and handover details are communicated and

ELEMENT	PERFORMANCE CRITERIA
	received
2. Assist with well BOP operations	2.1 Assist with well kill activities according to job requirements 2.2 Monitor and report BOP equipment status according to workplace procedures 2.3 Isolate BOP system accumulator according to workplace procedures 2.4 Monitor and adjust chokes and manifolds as directed 2.5 Assist with emergency shutdown procedures 2.6 Participate in emergency drills and exercises 2.7 Communicate operational activities and information to other crew during BOP operations
3. Monitor and report safety issues	3.1 Identify, address and report hazards associated with BOP 3.2 Recognise kick indicators and advise driller during operations 3.3 Identify and report ignition sources as required 3.4 Identify and report sources and presence of flammable gases and emissions as required 3.5 Identify and report BOP malfunctions 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
Oral communication	Listens to short, explicit instructions for work procedures and asks questions to clarify and confirm
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIIOGD205D Support blow out prevention operations.

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 RIIOGD205E Support blow out prevention operations

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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:

- support blow out prevention (BOP) operations on at least two occasions, including:
 - disassembling, cleaning, checking, replacing and assembling components of the Ram or Annular BOP
 - inspecting parts in sequence before assembly, including at least three of the following:
 - housing/body joints and outlets
 - locking assembly
 - piston
 - bonnet seal
 - BOP vertical bore
 - shafts
 - rotating assembly
 - welding parts and plating
 - major piston
 - bonnet bolt
 - flanges
 - extend and retract ports
 - blowhole and blindhole
 - participating in identifying hazards and issues
 - participating in emergency drills and activities on site.

During the above, the candidate must:

- locate and apply documentation required for supporting BOP operations
- implement the requirements, procedures and techniques for supporting BOP operations, including:
 - determining type of BOP and their unique requirements

- applying kick warning (signs and indicators) detecting procedures
- monitoring processes including recording and reporting on operations and safety issues
- work with others to support BOP operations that meet required outcomes, including:
 - working in a team 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:

- the principles and practices of well control
- key policies, procedures and requirements for supporting BOP operations, including those for:
 - work health and safety
 - well control
 - risks and their controls related to well control
 - complying with BOP annular equipment operating principles
 - BOP control system principles
- operating principles of chokes and manifolds
- kill principles and methods
- sources of ignition and their dangers and controls
- sources of flammable gases and emissions and their dangers and controls
- kick detection warnings, indications and the appropriate responses
- purpose, type and execution of well control emergency drills and exercises
- using various communication methods and protocols
- drilling team roles and objectives.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to support blow out prevention operations
- 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	

Industry sector	AQF indicator level***	Required assessor 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.

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