



Australian Government

Assessment Requirements for RIIOGD301E Conduct and maintain derrick operations

Release: 1

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Modification History

Release	Comment
1	This unit replaces RIIOGD301D Conduct and maintain derrick operations. Two element titles and multiple performance criteria amended. Performance and knowledge evidence amended.

Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of derrick operations and maintenance including:
 - complying with work instructions
 - using correct techniques for handling tubulars and equipment
 - performing conversion between imperial and metric measurements
 - demonstrates a range of written and verbal communications skills, including use of:
 - 2-way radio
 - intercom
 - telephone
 - written instruction
 - oral instruction
 - hand signals
 - telephone
 - public address system
 - prepare and complete clear and legibly written reports
- works effectively with others to undertake and complete the conduct and maintenance of derrick operations that meets all of the required outcomes including:
 - coordinating activities with others
 - reading and passing on handover notes and details
 - communicating clearly and concisely to and with the driller
 - assisting the driller in Blowout Prevention (BOP) testing

- communicate clearly and concisely with fluid engineer and operator's representative and inform driller of problems if they arise
- demonstrates completion of the conduction and maintenance of derrick operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - handling tubular and equipment including making and breaking connections
 - inspecting all lines, equipment and attachments to the derrick
 - preparing fluids, checking fluid, aligning fluid, monitoring and recording fluid additives
 - correctly preparing for drilling
 - participating in pressure testing
 - assisting in running and cementing casings
 - assisting with rig shutdown and rig down

Knowledge Evidence

The candidate must demonstrate knowledge of the following in conduct and maintain derrick operations:

- company and statutory safety guidelines, procedures and practices
- safe operating procedures when operating equipment
- equipment malfunction or failure and appropriate procedures
- supervision and training of subordinates to provided standards
- work directed by driller in timely and efficient manner
- routine maintenance of derrick
- preparation for drilling operations
- preparation for the tripping of tubulars
- process for assisting in running and cementing of casing
- key tasks in assisting driller in handling and nipple up of Blowout Prevention (BOP) stack
- key tasks in acting as assistant to driller on drill floor
- process for keeping circulation system clean and operating well
- equipment maintenance and disposing of waste properly
- awareness of position of crew members on floor during handling of drill stem
- safe operating procedures when operating equipment
- conversion between metric and imperial measurements
- rig maintenance
- normal drilling operations
- non-routine drilling operations

Assessment Conditions

- Assessors must satisfy the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory competency requirements for assessors; and industry regulations for certification and licensing; and,

- this unit must be assessed in the context of this sector’s work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other units of competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this unit of competency, and through the minimum years of current* work experience specified below in an industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an industry subject matter expert. The industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or industry sector as follows:

Industry sector	AQF** Level	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 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.	

*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered to indicate the AQF level.

Links

Companion Volume implementation guides are found in VETNet -

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