



Australian Government

RIIOGD202D Carry out equipment and basic rig maintenance

Release: 2

RIIOGD202D Carry out equipment and basic rig maintenance

Modification History

Release	Comment
1	This unit replaces RIIOGD202A Carry out equipment and basic rig maintenance
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to apply carry out equipment and basic rig maintenance in Drilling.

This unit is appropriate for those working in assistant roles.

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.

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare for operations	1.1 Access, interpret and apply rig equipment and maintenance and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select the personal protective equipment appropriate for the work activity 1.5 Clarify difficulties in carrying out the instructions with the relevant personnel 1.6 Resolve coordination requirements with others at the site prior to commencing, during and on completion of the work activities and ensure briefings/handover details are read/passed on
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	1.7 Conform to safe working practices and operational requirements
	1.8 Confirm availability of necessary auxiliary equipment
2. Prepare and paint metal surface	2.1 Identify, locate, and wear personal protective equipment 2.2 Prepare surface using correct equipment 2.3 Apply rust remover, rust converter and undercoat 2.4 Mix epoxy, paracryl or other paints in correct proportions 2.5 Mask and protect equipment against overspray 2.6 Apply finishing coat using brush, roller and spray gun 2.7 Clean equipment
3. Assist in maintenance of materials handling equipment	3.1 Identify faults/potential faults and report immediately 3.2 Identify, record in writing and/or report requirement for repair or maintenance 3.3 Perform periodical maintenance on chain blocks and comealongs, ensuring equipment is corrosion free, lubricated and operating freely 3.4 Assist with periodical examination of hooks, shackles, slings and strops for defects, correct marking of SWL and ease of operation 3.5 Maintain equipment
4. Prepare and use solvent solutions and rig wash to clean and maintain work areas in non-slippery condition	4.1 Correctly use hazardous chemicals for cleaning 4.2 Isolate area being washed or provide warning signs to indicate slippery decks 4.3 Prepare and apply solvent solutions and rig wash and ensure work areas is maintained for non-slippery conditions 4.4 Clean equipment correctly and stow on completion 4.5 Clean, preserve and reassess painting equipment

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIOGD202A Carry out equipment and basic rig maintenance

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIIOGD202D Carry out equipment and basic rig maintenance

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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 applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of carry out equipment and basic rig maintenance including:
 - keeping the work area clean
 - selecting and wearing appropriate protective clothing and equipment
 - conduct pre-operating checks
 - conducting periodic maintenance on chain blocks, comealongs and crane hoists
 - examining hooks, shackles, slings, straps and baskets
 - assembling rust scaling equipment
 - assembling surface preparation equipment correctly
 - ensuring safety pins are in air hose fittings
 - applying rust treatment undercoat/final coat correctly
 - reporting immediately any malfunction or equipment failure
- works effectively with others to undertake and complete carry out equipment and basic rig maintenance tasks that meets all the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
- report regularly to and work as directed by the driller/derrickman timely and efficiently

- demonstrates completion of equipment and basic rig maintenance that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - correctly performs maintenance on a minimum of three (3) pieces of plant or equipment
 - checking, identifying and reporting defects on rigging equipment
 - cleaning and preserving equipment on completion
 - applying numerical skills, to calculate measurements, mass, load dimensions and safety working loads

Knowledge Evidence

The candidate must demonstrate knowledge carrying out equipment and basic rig maintenance through:

- applying organisation and site requirements and procedures for:
 - written work instructions company and statutory guidelines, procedures and practices
 - safe operating procedures and practices
 - rig maintenance procedures including:
 - chain blocks, comealongs and crane hoist maintenance procedures identifying and using surface preparation equipment
 - identifying safety pins and air hose fittings
 - identifying paint types and applications
 - using equipment cleaning and preservation techniques
 - complying with platform cleaning procedures
 - identifying required rust treatment and applications
 - company equipment maintenance procedures
 - work health and safety procedures and individual obligations
- utilising a range of communication methods, including:
 - two-way radio
 - intercom
 - verbal
 - hand signals
 - telephone
 - public address system
- normal drilling operations
- non-routine drilling operations

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; 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**

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