



Australian Government

RIIHAN209D Perform basic rigging

Release: 3

RIIHAN209D Perform basic rigging

Modification History

Release	Comment
1	This unit replaces RIIHAN209A Perform basic rigging.
2	Amend Knowledge Evidence to include requirement to have Dogger experience/training; Amend reference to Licencing requirements in Unit Application; editorial corrections.
3	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 perform basic rigging in the Resources and Infrastructure Industries.

This unit is appropriate for those working in operational roles.

The work required in this unit relates to the National Standard for High Risk Work. 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.

Elements and Performance Criteria

1. Plan and prepare for basic rigging	1.1 Access, interpret and apply rigging documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements before proceeding 1.3 Select and wear personal protective equipment appropriate for work activities 1.4 Develop a written preliminary rigging plan and site sketch considering essential information 1.5 Check and confirm job feasibility and schedule with the client, the load designer and other relevant persons 1.6 Confirm hazards associated with the use of cranes and other
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	load moving equipment and identify and review measures to eliminate or control these hazards with appropriate parties 1.7 Finalise and confirm rigging plan, including the scheduling of required resources 1.8 Safety requirements are followed in accordance with safety plans and policies 1.9 Identify and implement signage/barricading requirements
2. Prepare rigging equipment	2.1 Select and inspect resources, materials and equipment for compliance with job specifications and applicable Australian standards 2.2 Inspect lifting equipment according to manufacturer's specifications 2.3 Label, reject and dispose of lifting equipment which is identified as inconsistent with manufacturer's specifications 2.4 Sling loads and slings, ensuring protection of the load and associated equipment 2.5 Secure whole or part loads to prevent uncontrolled movement 2.6 Attach and position slings, or parts of slings, to the load, ensuring safe movement 2.7 Attach slings, or parts of slings, to hook while the hoist wire is vertical 2.8 Attach tag lines to the load where specified 2.9 Perform test lifts, ensuring safe and secure movement of the load where specified
3. Move loads	3.1 Calculate and confirm appropriate safe working loads and centre gravity using load charts and standard calculation rules prior to load moving 3.2 Perform load moving in accordance with the plan, acceptable safe work practices 3.3 Perform work safely at heights, within incomplete structures and/or in confined and enclosed spaces 3.4 Connect lifting gear to load to Australian standards and manufacturer's specifications 3.5 Connect load to movement device using appropriate and certified equipment 3.6 Ensure stability of the load by application of load movement procedure, temporary bracing and/or load support appropriate to the task 3.7 Follow appropriate designers specifications during the placing

	and securing of the load 3.8 Dismantle and remove/restore load shifting equipment 3.9 Use standard communication signals are used in coordinating safe movement of the load
4. Clean up	4.1 Clear work area and dispose of, reused or recycle materials 4.2 Clean, check, maintain and store plant, tools and equipment 4.3 Apply work completion procedures, notify personnel of work completion

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

RIIHAN209A Perform basic rigging

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 RIIHAN209D Perform basic rigging

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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 relevant documentation, policies and procedures
- implements requirements, procedures and techniques for the safe, effective and efficient completion of performing basic rigging including:
 - conducting risk assessment and implementing controls
 - erecting and dismantling, levelling, plumbing and stabilising associated plant and structures
- works effectively with others to undertake and complete the performance of basic rigging that meets all of the required outcomes including:
 - checks and verifies work activity with client, load designer and others
 - communicating hazards and determining elimination or control of hazards
 - using a range of communication techniques and systems to convey instruction or information to others
 - provides end of work handover to relevant personnel
- demonstrates completion of performing basic rigging that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - writing a preliminary rigging plan which must include the following points in detail:
 - confirmed details of rigging requirement

- confirmed dimensions
- site access and egress
- suitability and availability of materials
- tools and equipment
- identification of potential hazards
- control measures
- identification of site coordination requirements
- unless otherwise specified, rigging is to conform with the requirements of any relevant National Certification and/or Standards
- selecting and conducting pre and post operational inspection of equipment including:
 - plant
 - safety harnesses
 - fall arrest systems
 - communication equipment
- installing and maintaining the following:
 - static lines and safety nets
 - perimeter safety screens and shutters
- erection of the following:
 - material hoists
 - mast climbing personnel platforms
- performing mathematical calculations for estimation and measurement of loads
- using rope to attach tag lines using knots, bend and hitches including:
 - sheet bend
 - becket hitch
 - running bowline knot
 - double bowline knot
- using ropes for splices and whipping techniques including:
 - back splice
 - eye splice
 - short splice
 - common whipping
 - sailmakers whipping
 - west country whipping
- movement and relocation of plant and equipment including:
 - slinging
 - loading
 - directing
 - moving
 - unloading

Knowledge Evidence

The candidate must demonstrate knowledge of the following when performing basic rigging:

- National Standard for High Risk Work
- site and equipment safety requirements
- equipment characteristics, technical capabilities and limitations
- operational and maintenance procedures
- materials handling, storage and environmentally friendly waste management
- Safe Working Load (SWL) and Working Load Limit (WLL)
- practices and regulation for dogging

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 is best assessed in the context of this sector's 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 this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; 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	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	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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