



Australian Government

RIIHAN209E Perform basic rigging

Release: 1

RIIHAN209E Perform basic rigging

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 3.0.

Application

This unit describes the skills and knowledge required to perform basic rigging, including planning for rigging, preparing rigging equipment and moving loads.

This unit applies to those working in site-based roles.

The work required in this unit relates to the National Standard for High Risk Work but this unit does not provide the licence. Licensing, legislative, regulatory or certification requirements that may apply to this unit can vary between states, territories and industry sectors, and must be sourced from relevant state jurisdictions prior to applying this unit.

Unit Sector

Coal mining

Drilling

Extractive

Metalliferous mining

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 basic rigging operations	1.1 Access, interpret and apply rigging documentation to ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work requirements 1.3 Write preliminary rigging plan and site sketch considering information essential to perform work activity 1.4 Confirm job feasibility and schedule work activity with the client, the load designer, and other relevant persons to perform the work activity

	1.5 Identify hazards associated with the use of load moving equipment and review measures to eliminate or control these hazards with appropriate parties and in line with standard operating procedures 1.6 Calculate and confirm safe working loads and centre gravity using load charts and standard calculation rules prior to load moving 1.7 Finalise and confirm rigging plan, including the scheduling of required resources 1.8 Check safety requirements for rigging operations are in accordance with safety plans and policies 1.9 Select and wear personal protective equipment required for work activities 1.10 Identify and display signage, and erect barricades to isolate the work area in line with workplace procedures
2. Prepare rigging equipment	2.1 Select and inspect resources, materials and rigging equipment to perform work activity in line with job specifications and applicable Australian standards 2.2 Confirm lifting equipment is appropriate and safe to perform work activity according to manufacturer's guidelines, engineering specifications and organisational policies and procedures 2.3 Label and dispose of lifting equipment identified as inconsistent with manufacturer's guidelines, engineering specifications and organisational policies and procedures 2.4 Prepare 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 and attach slings, or parts of slings, to hook while the hoist wire is vertical in line with safe work practices 2.7 Attach tag lines to the load where specified within work requirements, and according to workplace procedures 2.8 Confirm lifting gear is attached to load to Australian standards, manufacturer's guidelines, engineering specifications and organisational policies and procedures 2.9 Perform test lifts, ensuring stable and secure movement of loads
3. Move loads using basic rigging techniques and relevant equipment to complete work activity	3.1 Connect lifting gear to load to Australian standards, manufacturer's guidelines, engineering specifications and organisational policies and procedures 3.2 Connect load to movement device using appropriate and certified equipment 3.3 Stabilise loads by application of load movement procedures,

	temporary bracing and/or by installing or erecting load support appropriate to the work activity 3.4 Coordinate and communicate planned activities, including using load moving signals according to workplace procedures 3.5 Move loads in line with work activity, workplace procedures and working safely at heights as appropriate to the work environment 3.6 Place and secure loads in line with load designer specifications to complete work activity 3.7 Dismantle and remove or restore load shifting equipment in a manner that complies with safe work practices
4. Conduct housekeeping activities	4.1 Clean, check, maintain and store plant, tools and equipment according to workplace procedures 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Notify appropriate personnel of work completion 4.4 Complete and file documentation and distribute according to workplace requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skill	Description
Reading	Identifies and interprets relevant information from workplace procedures, documentation, legislation and regulations
Numeracy	Identifies and comprehends relevant mathematical information in required to determine equipment operating capacities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
RIIHAN209E Conduct basic rigging operations (Release 1)	RIIHAN209D Perform basic rigging (Release 3)	Minor updates to all sections to reflect operator's role.	Equivalent unit

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 RIIHAN209E Perform basic rigging

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements and performance criteria of this unit.

The candidate must demonstrate completion of basic rigging operations that safely, effectively and efficiently follow workplace procedures to carry out work activity on at least two occasions. This includes:

- writing a preliminary rigging plan which must include all of the following points in detail:
 - details of rigging requirements
 - dimensions
 - site access and egress
 - suitability and availability of materials
 - tools and equipment
 - identification of potential hazards
 - control measures
 - identification of site coordination requirements
- 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
- erecting 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
- moving and relocating plant and equipment including:
 - slinging
 - loading
 - directing
 - moving
 - unloading.

In the course of the above work the candidate must also:

- locate and apply required documentation, policies and procedures
- apply safe work practices and identify and report potential hazards and environmental issues, and assess risks
- select and wear personal protective equipment required for work activities
- erect, dismantle, level, or plumb associated plant and structures to ensure stability
- meet written and verbal reporting requirements and procedures associated with performing basic rigging operations
- check and verify work activity with client, load designer and other relevant personnel,
- provide end of work handover to relevant personnel
- dispose or recycle materials.
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Knowledge Evidence

The candidate must demonstrate the following knowledge to effectively complete the tasks outlined in the elements and performance criteria of this unit.

Key policies, procedures and relevant standards for vehicle loading cranes, described in the performance evidence above, including those relating to:

- National Standard for high risk work
- site and equipment safety
- Safe Working Load (SWL) and Working Load Limit (WLL)
- role, responsibilities and legislation relating to a dogman
- operation and maintenance of equipment

- materials handling, storage and environmentally friendly waste management.

Key features associated with equipment performance, including:

- equipment and manufacturer guidelines, and engineering specifications
- technical capabilities and limitations.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below.

The assessment must:

- include access to:
 - rigging tools and equipment
 - load to be shifted
 - personal protective equipment
- be conducted in a safe environment
- be assessed in context of this sector's work environment
- be assessed in compliance with relevant legislation and regulations and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- 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/AQTF 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 a high level of RII training product knowledge
- understanding and knowledge of legislation and regulation 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 hold the relevant vocational competencies and have current industry skills directly relevant to the training and assessment being provided, and must work alongside a trainer and/or assessor to conduct the assessment. This means the **industry subject matter expert should hold the unit being assessed (or an equivalent unit) and must also 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 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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