



Australian Government

Department of Education, Employment and Workplace Relations

RIIHAN210A Perform intermediate rigging operations

Release: 2

RIIHAN210A Perform intermediate rigging operations

Modification History

Not applicable.

Unit Descriptor

This unit covers the performance of intermediate rigging operations in the resources and infrastructure industries. It includes planning for rigging, preparing for rigging, moving loads and cleaning up. 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.

Application of the Unit

This unit is appropriate for those working in an operational role at worksites within:

- Civil construction
- Coal mining
- Drilling
- Extractive industries
- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan for rigging	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Obtain, interpret and clarify work requirements before commencing 1.3. Develop a preliminary rigging plan and site sketch taking account of essential information 1.4. Follow safety information including signage/barricade requirements 1.5. Check and confirm job feasibility and schedule with the client, the load designer and other persons as appropriate 1.6. Identify and apply any environmental protection requirements 1.7. Finalise and confirm rigging plan including the scheduling of required resources
2. Prepare for rigging	2.1. Identify, select, inspect, assemble and confirm as serviceable rigging equipment, materials and tools required for the plan 2.2. Label for repair or destroy unserviceable equipment, materials and tools 2.3. Where appropriate, install fall arrest equipment with ground level installation 2.4. Determine and select personal cartage systems
3. Move loads	3.1. Calculate and confirm appropriate safe working loads and centre of gravity using load charts and standard calculation rules prior to load moving 3.2. Perform load moving in accordance with the plan and 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. Safely move load to required destination and secure in position 3.8. Follow appropriate designer's specifications during the placement and securing of the load 3.9. Dismantle and remove/restore load shifting equipment
4. Clean up	4.1. Clear work area and dispose, reuse or recycle materials 4.2. Clean, check, maintain and store plant, tools and equipment 4.3. Apply work completion procedures and notify relevant personnel that work is finished

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following as required to perform intermediate rigging operations:

- apply legislative, organisation and site requirements and procedures for performing intermediate rigging operations
- apply operation safety requirements
- access, interpret and apply technical information
- maintain equipment records
- apply hand-eye coordination
- use relevant hand tools
- apply diagnostic techniques
- identify potential hazards

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following as required to perform intermediate rigging operations:

- relevant National Certification Standards
- site and equipment safety requirements
- equipment characteristics, technical capabilities and limitations
- operational and maintenance procedures
- hand and whistle signals
- crane operations and limitations
- safe work method statements
- materials safety data sheet

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for the performance of intermediate rigging operations • implementation of requirements, procedures and techniques for the safe, effective and efficient performance of intermediate rigging operations • working with others to undertake and complete the performance of intermediate rigging operations that meet all of the required outcomes • consistent timely completion of the performance of intermediate rigging operations that safely, effectively and efficiently meet the required outcomes
Context of and specific resources for assessment	• This unit must be assessed in the context of the 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 workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of

	assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment should sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues • Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate requirements, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the performance of intermediate rigging operations
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • relevant regulations • management plans • relevant OHS policy • relevant code of practice • manufacturer's instructions • safe working or job procedures (or equivalents) • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Work requirements may be in the form of:	• shift briefings • handover details • work orders • site plans and drawings • work specifications • basic working plans and material schedules • confirmed mass and dimensions of loads • capacities and availability of load shifting equipment
Preliminary rigging plan may include:	• confirmed details of rigging requirement • confirmed dimensions • site access and egress • suitability and availability of materials, tools and equipment • identification and potential hazards • control measures and identification of site coordination requirements • unless otherwise specified, rigging is to conform to the requirements of the National OHS Certification Standards for Users and

	Operators of Industrial Equipment (NOH&SC:1006)
Rigging equipment may include:	• rigging of cranes • hoists • conveyors • dredges and excavators • tilt-slabs • rigging work associated with demolition • dual lifts • but excludes the following: • rigging of gin poles • shear legs • flying foxes and cableways • guyed derricks and structures • suspended and hung scaffolds • equipment range for dogging and rigging work associated with steel erection includes: • all hoists • placement of pre-cast concrete • safety nets and static lines • mast climbers • perimeter safety screens and shutters • cantilevered crane loading platforms • slinging and directing of loads

Unit Sector(s)

Load Handling

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.