



Australian Government

RIISAM211D Remove, repair and refit tyres and tubes

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIISAM211B Remove, repair and refit tyres and tubes.
2	Performance Evidence numbering corrected. 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 remove, repair and refit tyres and tubes in the Resources and Infrastructure Industries.

This unit is appropriate for those working in operational roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Elements and Performance Criteria

1. Plan for removal, repair and refitting of tyres and tubes	1.1 Access, interpret and apply tyre service and maintenance documentation 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 and wear personal protective equipment appropriate for the work activity 1.5 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency 1.6 Set up and schedule work
2. Prepare for removal, repair and refitting of tyres and	2.1 Identify wheel assembly and the type of mounting system 2.2 Prepare, clean and inspect wheel assembly for damage, wear,

tubes	corrosion, foreign material, cracks, and compatibility of components 2.3 Select tools and equipment and check they are fit for purpose
3. Assess and control risk in removal, repair and refitting of tyres and tubes	3.1 Identify, control or report any hazardous conditions of the work environment before proceeding. Note points where safety checks are required 3.2 Identify, control or report any hazardous conditions of the assembly before proceeding. Note points where safety checks are required 3.3 Identify, control or report any task hazards before proceeding. Note points where safety checks are required 3.4 Ensure that tyre and or tube is fully deflated before proceeding with the task 3.5 Identify the safe removal and purging of toxic fill substances
4. Remove tyre and or tube from wheel/rim assembly	4.1 Apply methods for the removal of tyres and tubes 4.2 Clean and inspect wheel/rim assembly components and assign status of disposition 4.3 Complete required documentation
5. Inspect wheel/rim assembly components prior to assembly	5.1 Ensure selected wheel/rim assembly components are compatible and suitable for application 5.2 Inspect the tyre for serviceability 5.3 Inspect the wheel/rim and associated parts for serviceability 5.4 Inspect the fastening systems for serviceability 5.5 Assess vehicle hub for serviceability and inspect where applicable
6. Fit tyre and or tube to wheel/rim assembly	6.1 Apply methods for the fitment of tyres and tubes 6.2 Assess need for tyre additive and add where required 6.3 Carry out refitting/replacement 6.4 Conduct integrity check of wheel assembly 6.5 Complete required documentation
7. Inflate assembly	7.1 Inflate assembly for storage or use 7.2 Complete required documentation
8. Inspect, tyres, tubes and wheels/rims	8.1 Inspect tyres, tubes and wheels/rims for serviceability, and or reparability 8.2 Carry out inspections and tests and identify those requiring minor repair

	8.3 Complete required documentation
9. Carry out a minor tube and tyre repair	9.1 Identify hazards and risks, and apply risk controls and equipment to be used 9.2 Carry out minor repair of tubes and tyres 9.3 Complete required documentation

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

RIISAM211B Remove, repair and refit tyres and tubes

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 RIISAM211D Remove, repair and refit tyres and tubes

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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
- demonstrates completion of the removal, fitting and repair of tyres and tubes that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - Inspecting wheel assembly for:
 - damage
 - wear
 - corrosion
 - foreign material
 - cracks
 - compatibility of components
 - controlling or reporting hazardous conditions related to:
 - work environment
 - assembly
 - tasks
 - tyre/tube
 - toxic fill substances

- removing tyre and/or tube from wheel/rim
- inspecting wheel/rim
- carrying out minor tube and tyre repairs
- fitting tyre and/or tube
- inflating assembly

Knowledge Evidence

The candidate must demonstrate knowledge in removing, repairing and refitting tyres and tubes through:

- accessing, interpreting and applying organisational and site requirements and procedures for:
 - identifying and managing risks
 - equipment safety requirements
 - inspections
 - tyre and tube removal and refitting/replacement
 - tyre and tube repair
 - ballast identification, types and application
 - tyre fill identification, types and application
 - tyre fill adding/removal methods
 - relevant manufacturer/company policies
- types of tubes and tyres and their construction
- workplace requirements in relation to tyre repair
- roadworthiness requirements relating to tyres and rims

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 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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