



Australian Government

# **Assessment Requirements for AURKTJ012 Remove, inspect and fit earthmoving and off-the-road wheel and rim assemblies**

Release: 1

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## Modification History

Release	Comment
Release 1	New unit of competency.

## Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate removing, inspecting, and refitting industrial earthmoving and off-the-road (OTR) wheel and rim assemblies that safely follows workplace procedures to meet required outcomes on a minimum of three occasions. The candidate must:

- locate and interpret required documentation, policies and procedures
- apply appropriate control measures to mitigate hazardous conditions in work environment and hazardous tyre, wheel and rim assembly conditions
- use raising and supporting equipment to raise vehicle in accordance with workplace procedures
- deflate tyre safely and in accordance with workplace procedures
- remove wheel and rim assembly in accordance with workplace procedures
- inflate tyre safely and in accordance with workplace procedures
- monitor tyre, wheel and rim assembly throughout inflation of tyre
- fit tyre, wheel and rim assembly including using the correct:
  - isolation procedures
  - tightening sequence
  - torque settings
  - inflation process and pressure
  - alignment
- check and confirm the following prior to fastening:
  - component compatibility
  - tyre, wheel and rim component serviceability
  - correct assembly of wheel and rim assembly
- safely lower vehicle
- undertake post-work inspection and complete work processes, including storage of tools and equipment
- transport and store tyre, wheel and rim assembly

- complete workplace documentation, including:
  - relevant risk assessments
  - tyre, wheel and rim assembly change documentation.

The above work must be performed on tyres fitted to wheel assemblies and rim assemblies of not less than 600 mm (24 inches) nominal diameter. In the course of the work above, the candidate must:

- utilise tyre handling equipment at least once.
- prepare, clean and inspect tyre, wheel and rim assembly for damage and serviceability, recommending repair and replacement actions for each of the following wheel or rim configurations:
  - three piece wheel or rim assembly
  - five piece wheel or rim assembly
  - split wheel or rim assembly
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## Knowledge Evidence

The candidate must demonstrate the following knowledge:

- Key policies and procedures for removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies, including:
  - how to locate and interpret manufacturers specifications, applicable standards and workplace procedures for removing, inspecting and fitting earthmoving and off-the-road wheel and rim assemblies
  - applicable standards for removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies
  - WHS requirements relevant to removing, inspecting and fitting earthmoving and OTR tyres
  - procedures relating to earthmoving and OTR wheel and rim assemblies:
    - fitting
    - hazard identification and risk control methods, including but not limited to those relating to:
      - hydraulic tooling
      - pneumatic tooling
    - torque measurement when tightening wheel or rim fasteners
    - inflation and deflation of tyres
    - inspection
    - pre-removal inspection
    - post-fitting inspection
  - raising, supporting and lowering procedures for mining and construction vehicles that include soft ground support procedures and systems
  - removal procedures of earthmoving and OTR wheel and rim assemblies:
    - methods for undoing wheel or rim fasteners

- handling methods
- two piece industrial rim
- disk or demountable multi piece rim
- one piece wheel and rim
- Earthmoving and OTR vehicle tyres, wheels and rim assembly information including:
  - types and classifications of earthmoving and OTR tyres, wheels and rim assemblies
  - types of mounting systems for earthmoving and OTR wheel and rim assemblies.
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## Assessment Conditions

The assessment must:

- include access to:
  - a workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
  - repair orders and workplace instructions relating to removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies
  - WHS requirements and workplace procedures relevant to removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies
  - manufacturer specifications and procedures or equivalent documentation to remove, inspect and fit earthmoving and OTR wheel and rim assemblies
  - applicable standards relevant to removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies
  - tyre handling equipment, including one of the following:
    - crane
    - earthmoving and OTR tyre handler
    - forklift
    - grab truck
    - integrated tool handler
  - earthmoving and OTR wheel and rim assemblies
  - WHS requirements relevant to removing, inspecting and fitting earthmoving and OTR wheel and rim assemblies
  - tools and equipment appropriate for removing and fitting earthmoving and OTR wheel and rim assemblies
  - tyre, wheel and rim assembly specifications and workplace instructions
  - operational vehicles with earthmoving and OTR wheel and rim assemblies
  - personal protective clothing and equipment required for the activities described in the performance evidence
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions

- be conducted in a safe environment
- be assessed in compliance with relevant 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.

## Assessor requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.
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## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>