



Australian Government

RIICBS304D Compact asphalt with rollers

Release: 2

RIICBS304D Compact asphalt with rollers

Modification History

Release	Comment
1	This unit replaces RIICBS304A Compact asphalt with rollers
2	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 compact asphalt with rollers in Civil Construction.

This unit is appropriate for those working in operational roles.

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.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to compact asphalt with rollers	1.1 Access, interpret and apply compact asphalt with rollers 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 work activities 1.5 Confirm and apply environmental protection and safety requirements 1.6 Obtain, interpret and implement traffic management signage
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	requirements 1.7 Select and check for faults plant, tools and equipment to carry out tasks 1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Prepare roller	2.1 Perform start-up, park, shutdown and secure equipment procedures 2.2 Plan water usage and replenishment 2.3 Set tyres to required pressure (self-propelled, multi-wheeled pneumatic tyred rollers)
3. Compact asphalt	3.1 Determine speed and rolling patterns 3.2 Set amplitude and frequency as directed for vibratory steel wheeled rollers 3.3 Avoid damage to other structures 3.4 Monitor watering system to prevent pick up 3.5 Maintain uniform speed and rolling pattern 3.6 Compact joints 3.7 Compact final surface free of blemishes or rolling marks 3.8 Maintain safe distance between rollers, other plant and the paving crew
4. Carry out operator maintenance	4.1 Prepare machine for maintenance 4.2 Conduct inspection and fault finding 4.3 Carry out scheduled maintenance tasks 4.4 Process written maintenance records
5. Relocate roller	5.1 Prepare roller for relocation 5.2 Drive roller safely on highways and construction sites
6. Clean up	6.1 Clear work area and dispose of or recycle materials 6.2 Clean, check, maintain and store plant, tools and equipment 6.3 Carry out housekeeping requirements

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

RIICBS304A Compact asphalt with rollers

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 RIICBS304D Compact asphalt with rollers

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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 applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient compacting of asphalt with rollers including:
 - selecting and using required tools and equipment
 - recording job specifications and producing work schedule
 - preparing roller
 - compacting asphalt
 - carrying out maintenance
 - moving/relocating roller
- works effectively with others to undertake and complete the compacting of asphalt with rollers that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication techniques and systems such as signage to advise others of work activity and exclusion zone
- demonstrates completion of compacting asphalt with rollers that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying, reporting and recording hazards and risks

- compacting a minimum of 2000m² of asphalt to the determined pattern, the measured density, with the minimum number of passes specified and to job specifications for five projects, with at least one project under 50mm thick and one project over 50mm thick
- a minimum of three longitudinal joints of 100 metres each and two transfer joints to be matched

Knowledge Evidence

The candidate must demonstrate knowledge of compacting asphalt with rollers through:

- applying legislative, organisational and site requirements and procedures:
 - site and equipment safety requirements
 - asphalt compacting techniques
 - asphalt paving operations
 - asphalt strength and performance characteristics
 - edge and joint treatments
 - safe operating techniques in all terrain
 - housekeeping
- equipment types, characteristics, technical capabilities and limitations
- applying and monitoring operational, maintenance and basic diagnostic procedures
- applying site isolation and traffic control responsibilities and authorities
- applying processes for the calculation of material uniformity and travel speed
 - safety data sheets and materials handling methods
- monitoring project quality requirements
- preparing and/or implementing JSAs/JSEA/safe work method statements

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 must be assessed in the context of this sector's work environment; 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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