



Australian Government

RIICBS305D Conduct asphalt paver operations

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICBS305A Conduct asphalt paver operations
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 conduct asphalt paver operations 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 conduct asphalt paver operations	1.1 Access, interpret and apply asphalt paver operations 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 Determine material to be laid and handling procedures to be employed 1.8 Select and check for faults plant, tools and equipment to carry out tasks 1.9 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Set up asphalt paver	2.1 Carry out start-up, park, shutdown and secure equipment procedures 2.2 Adjust, change or inflate tyres 2.3 Set equipment to correct levels to enable the laying of materials 2.4 Set heating controls for the screed board 2.5 Install feeder bin where required 2.6 Check materials spreading controls for correct operation
3. Operate asphalt paver	3.1 Drive and operate equipment 3.2 Engage delivery vehicles smoothly without bumping 3.3 Maintain appropriate uniform speed during spreading operations 3.4 Monitor and maintain asphalt mix 3.5 Maintain communication with screed hand to ensure job is progressing satisfactorily and that materials are being spread to specifications 3.6 Monitor movement of the plant to ensure safety of asphalt 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 paver	5.1 Prepare paver for relocation 5.2 Drive paver 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

RIICBS305A Conduct asphalt paver operations

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 RIICBS305D Conduct asphalt paver operations

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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 completion of asphalt paver operations including:
 - selecting and using required tools and equipment
 - determining material to be laid
 - setting-up asphalt paver
 - operating asphalt paver
 - carrying out operator maintenance
 - moving/relocating paver
- works effectively with others to undertake and complete asphalt paver operations 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
 - communicating with screed hand to ensure that materials are spread to specifications

- demonstrates completion of conducting asphalt paver operations 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
 - conducting paver operations in a minimum of two (2) different asphalt types/surface types, constructed to required thickness, uniformity, line and level, on both matching and unsupported edge in accordance with project specifications and/or work instructions, for the following:
 - three (3) longitudinal joints (of at least 100m) to be
 - six (6) transverse joints
 - five (5) sections of straight paving (one of at least 100 linear metres)
 - three (3) intersections
 - operations to include residential, commercial and highway projects; and
 - material delivery through the paver is to include manual and automatic control

Knowledge Evidence

The candidate must demonstrate knowledge of conducting asphalt paver operations through:

- applying legislative, organisational and site requirements and procedures for:
 - site and equipment safety requirements
 - asphalt paving techniques
 - asphalt paving operations
 - asphalt strength and performance characteristics
 - edge and joint treatments
 - 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 requirements, mix, application rates, uniformity and travel speed
- safety data sheets and materials handling methods
- applying 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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