



Australian Government

RIICBS201D Conduct tack coat spraying operations

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICBS201A Conduct tack coat spraying operations
2	Knowledge Evidence formatting 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 conduct tack coat spraying 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 tack coat spraying operations	1.1 Access, interpret and apply tack coat spraying 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
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	1.6 Obtain, interpret and implement traffic management signage requirements 1.7 Select and check for faults tools and equipment to carry out tasks 1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Prepare for spraying operations	2.1 Carry out pre-operational plant and equipment checks 2.2 Check tank for cleanliness and contaminants prior to filling, and ensure transfer connections are completed and fully functional 2.3 Conduct loading and unloading operations 2.4 Ensure spray tank is filled with adequate materials to perform spray operations 2.5 Identify application rate and translate into the relevant travel speed and pump characteristics where necessary 2.6 Select jets and fit to spray bar
3. Spray tack coat	3.1 Select and modify tack coating spraying techniques to meet changing conditions and surface types 3.2 Conduct, control and monitor spraying operations of tack coat sprayer and ensure that materials are sprayed to specification 3.3 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 3.4 Complete work plan within the operating capacities of the allocated equipment
4. Operate hand lance	4.1 Determine situations where hand spraying is required 4.2 Set spray jets for job 4.3 Conduct, control and monitor hand spraying operations and ensure that materials are sprayed to specification 4.4 Clean and store hand spraying equipment after use
5. Carry out operator maintenance and housekeeping	5.1 Conduct inspection and fault finding 5.2 Clean spray bars and lances and ensure jets are free of contaminants 5.3 Empty and clean tank of bituminous products 5.4 Carry out routine operational servicing and lubrication tasks 5.5 Carry out minor maintenance 5.6 Maintain records including identification of potential and current equipment problems

	5.7	Clear work area and dispose of or recycle materials
	5.8	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

RIICBS201A Conduct tack coat spraying 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 RIICBS201D Conduct tack coat spraying 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 tack coat spraying operations including:
 - selecting, using and maintaining required tools, plant and equipment
 - spraying of tack coat including, selecting, controlling and monitoring spraying technique in response to conditions and surface type
 - operating a hand lance
- works effectively with others to undertake and complete tack coat spraying 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
- demonstrates completion of conducting tack coat spraying 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

- tack coating a minimum of 500m² of an existing pavement prior to asphaltting using the spray bar, completed in a minimum of two separate runs
- a minimum of two (2) areas of at least 20m² to be tack coated using a hand lance

Knowledge Evidence

The candidate must demonstrate knowledge of conducting tack coat spraying operations through:

- applying legislative, organisation and site requirements and procedures for:
 - site and equipment safety requirements
 - bituminous surfacing operations
 - bituminous products
 - tack coat spraying techniques
 - project quality requirements
 - housekeeping
- equipment types, characteristics, technical capabilities and limitations
- operational and maintenance procedures
- site isolation and traffic control responsibilities and authorities
- processes for the calculation of material requirements, application rates and travel speed
- safety data sheets and materials handling methods
- 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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