



Australian Government

RIICBS313 Conduct tack coat spraying operations

Release: 1

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Modification History

This unit replaces RIICBS201D Conduct tack coat spraying operations. Minor endorseable amendments have been made to Elements, Performance Criteria, Foundation Skills, Performance Evidence and Knowledge Evidence to better reflect current industry practices and clarify training outcomes.

Application

This unit describes the skills and knowledge required to conduct tack coat spraying operations in civil construction.

It applies to those working in operational roles. The individual is generally a skilled operator and may provide theoretical advice and support a team.

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

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to conduct tack coat spraying operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply tack coat spraying operations documentation and confirm work activity is compliant 1.3 Identify environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activities 1.5 Confirm and comply with environmental protection, safety and traffic management signage requirements 1.6 Select tools and equipment to carry out tasks and check for faults within scope of own role 1.7 Obtain and interpret emergency procedures and identify steps required in case of fire, accident and

ELEMENT	PERFORMANCE CRITERIA
	other emergencies
2. Set up for spraying operations	2.1 Conduct pre-operational plant and equipment checks 2.2 Check tank for cleanliness and contaminants prior to filling 2.3 Confirm transfer connections are completed and fully functional 2.4 Conduct loading and unloading operations according to workplace procedures 2.5 Fill spray tank with adequate materials for operation 2.6 Identify application rate and translate into required travel speed and pump characteristics 2.7 Select jets and fit to spray bar
3. Spray tack coat	3.1 Conduct, control and monitor tack coat spraying operations to meet job requirements 3.2 Select and modify tack coat spraying techniques as required by changing conditions and surface types 3.3 Monitor hazards and risks and maintain a safe working environment 3.4 Complete work plan within the operating capacities of allocated equipment
4. Operate hand lance	4.1 Determine hand spraying requirements 4.2 Set spray jets according to job requirements 4.3 Conduct, control and monitor hand spraying operations 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 on equipment 5.2 Clean spray bars and lances and check jets are free of contaminants 5.3 Empty and clean tank of bituminous products 5.4 Conduct routine operational servicing and lubrication tasks 5.5 Conduct minor maintenance on equipment 5.6 Maintain records of task according to site requirements and identify potential and current equipment problems 5.7 Clear work area and dispose of and recycle materials as required according to workplace procedures and environmental requirements 5.8 Carry out housekeeping to workplace requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Identifies and interprets information from workplace procedures, documentation, legislation and regulations
Self-management	Monitors and minimises own exposure to worksite hazards during activities
Oral communication	Uses a range of communication techniques and systems to communicate with others

Unit Mapping Information

Supersedes and is equivalent to RIICBS201D 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 RIICBS313 Conduct tack coat spraying operations

Modification History

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit; including evidence of the ability to:

- conduct tack coat spraying operations on at least two occasions, including:
 - tack coating at least 500m² of an existing pavement prior to asphaltting using the spray bar, completed in at least two separate runs
 - hand lancing a minimum of two areas of at least 20m².

During the above, the candidate must:

- locate and apply legislation, documentation, policies and procedures required for conducting tack coat spraying operations
- work with others to complete tack coat spraying operations that meets required outcomes, including:
 - organising work activities to meet task requirements
 - communicating with others to receive and clarify work instructions
 - using a range of communication techniques and systems
 - using signage to advise others of work activity and exclusion zone
- identify, report and record hazards and risks
- set up for spraying operations
- clean, check, perform maintenance on and store equipment
- complete housekeeping activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- processes for calculating material requirements, application rates and travel speed
- safety data sheet (SDS) compliance processes
- key components of job safety analyses (JSAs)/job safety environmental analyses (JSEAs)/safe work method statements (SWMSs)
- on site processes and responsibilities relating to site isolation and traffic control
- key legislation for conducting tack coat spraying operations

- key policies, procedures and established requirements for conducting tack coat spraying operations, including those for:
 - site and equipment safety
 - environmental protection, including waste disposal and recycling
 - bituminous surfacing operations
 - bituminous products
 - establishing exclusion zones
 - housekeeping
 - operating and maintaining equipment
 - loading and unloading operations
- key factors affecting work activities described in performance evidence above, including:
 - tack coat spraying techniques
 - hand spraying techniques
 - resource requirements
 - equipment types, characteristics, technical capabilities and limitations.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - tack coat spraying equipment
 - personal protective equipment
- be conducted in a safe environment; and,
- be assessed in context of this sector's work environment; and,
- be assessed in compliance with legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.
- Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sectors workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor Requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory competency standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed

- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing a high level of RII training product knowledge
- having an understanding and knowledge of legislations and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence as outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must hold the relevant vocational competencies and have current industry skills directly relevant to the training and assessment being provided and must work alongside a trainer and/or assessor to conduct the assessment. This means the industry subject matter expert should hold the unit being assessed (or an equivalent unit), and must also demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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