



Australian Government

RIICBS307D Conduct bitumen sprayer operations

Release: 2

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Modification History

Release	Comment
2	Corrected Performance Criteria numbering.

Application

This unit describes a participant's skills and knowledge required to conduct bitumen sprayer 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 for bitumen sprayer operations	<p>1.1 Access, interpret and apply bitumen sprayer operations documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures</p> <p>1.4 Select and wear personal protective equipment appropriate for work activities</p> <p>1.5 Confirm and apply environmental protection and safety requirements</p> <p>1.6 Obtain, interpret and implement traffic management signage requirements</p> <p>1.7 Select and check for faults plant, tools and equipment to carry out tasks</p> <p>1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p>
2. Set up sprayer	<p>2.1 Ensure ancillary tanks are full and adequate materials are determined to perform spray operations</p> <p>2.2 Check tank for prevention of contamination</p> <p>2.3 Calculate spraying speed and pump rpm</p> <p>2.4 Introduce correct amount of cutter</p> <p>2.5 Fit appropriate number and size of jets to the spray bar</p>
3. Load sprayer	<p>3.1 Check previous load details for compatibility</p> <p>3.2 Load tank with the prescribed type and quantity of material</p> <p>3.3 Add additives and mix where required</p> <p>3.4 Check, heat and maintain temperature of the material</p> <p>3.4 Measure, calculate and record material quantities and additives</p>
4. Operate bitumen sprayer	<p>4.1 Carry out start-up, park, shutdown and secure equipment procedures</p> <p>4.2 Select and modify bitumen spraying techniques to appropriately meet changing work conditions</p> <p>4.3 Plan work to maximise machine coverage and minimise hand spraying</p> <p>4.4 Set control valves correctly for the type of operation</p> <p>4.5 Drive and operate equipment</p>

	4.6 Conduct, control and monitor spraying operations to ensure materials are sprayed to specification
	4.7 Carry out operations adjacent to traffic
	4.8 Complete spraying without damage to property or vehicles
5. Operate hand lance	5.1 Inspect hand lance to ensure correct operation
	5.2 Select hand lancing techniques to match work conditions
	5.3 Conduct, control and monitor hand spraying operations
	5.4 Carry out hand spraying operations adjacent to traffic
6. Unload/empty sprayer	6.1 Unload or empty tank into storage or waste
	6.2 Clean tank interior and spray bar
7. Carry out operator maintenance	7.1 Prepare machine for maintenance
	7.2 Conduct inspection and fault finding
	7.3 Carry out scheduled maintenance tasks
	7.4 Process written maintenance records
8. Clean up	8.1 Clear work area and dispose of or recycle materials
	8.2 Clean, check, maintain and store plant, tools and equipment
	8.3 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

RIICBS307A Conduct bitumen sprayer operations

Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>