



Australian Government

RIICBS311D Produce asphalt products

Release: 2

RIICBS311D Produce asphalt products

Modification History

Release	Comment
1	This unit replaces RIICBS311A Produce asphalt products
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 produce asphalt products 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 produce asphalt products	1.1 Access, interpret and apply asphalt products production 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 Select and check for faults plant, tools and equipment to carry out tasks 1.6 Confirm and apply environmental protection and safety requirements 1.7 Obtain and interpret emergency procedures, and be prepared
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	for fire/accident/emergency
2. Operate plant	2.1 Carry out pre-start and start-up procedures 2.2 Determine production requirements 2.3 Test aggregate and sand as it arrives 2.4 Monitor cold feed bins and ensure sufficient raw material is maintained 2.5 Ensure proportion of material allocation is set to batch requirements 2.6 Select mix design to batch requirements 2.7 Heat and mix material to the correct temperature and tolerance 2.8 Store material ready for dispatch and loading 2.9 Monitor loading operations 2.10 Test mixed material regularly for bitumen content and grading
3. Carry out operator maintenance	3.1 Prepare machine for maintenance 3.2 Conduct inspection and fault finding 3.3 Carry out scheduled maintenance tasks 3.4 Process written maintenance records
4. Clean up	4.1 Clear work area and dispose of or recycle materials 4.2 Clean, check, maintain and store plant, tools and equipment 4.3 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

RIICBS311A Produce asphalt products

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 RIICBS311D Produce asphalt products

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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 producing asphalt products including:
 - select and use relevant tools and equipment safely
 - identify and report on hazards related to the worksite and work activity
- works effectively with others to undertake and complete the production of asphalt products that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
- demonstrates completion of producing asphalt products that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - completion of programming and planning of the mix specification for three (3) separate mixes, with the temperature and mix produced within tolerance for three hundred (300) tonne of mix, without plant down time

Knowledge Evidence

The candidate must demonstrate knowledge in producing asphalt products through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - site and equipment safety requirements
 - conducting plant operations
 - heating bitumen and controlling temperature
 - batch testing
 - calculation of material requirements and application rates
 - housekeeping
- complying with site and equipment safety requirements
- using batching systems
- understanding mix specifications (temperatures and tolerances)
- understanding production requirements
- understanding bituminous materials and their characteristics
- understanding aggregate and sand properties and conformance
- using additives
- understanding the equipment types, characteristics, technical capabilities and limitations
- complying with the operational, maintenance and basic diagnostic procedures
- complying with safety data sheets and materials handling methods
- 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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