



**Australian Government**

**Assessment Requirements for RIICBS410D  
Apply the principles for the manufacture of  
bituminous emulsion**

**Release: 1**

## **Assessment Requirements for RIICBS410D Apply the principles for the manufacture of bituminous emulsion**

### **Modification History**

Not applicable.

## 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 relevant legislation, documentation, policies and procedures
- implements the procedures and techniques for the safe, effective and efficient supervision of the manufacture of bituminous emulsion including:
  - interpreting project contract and specification requirements and procedures
  - interpreting project site soil and geological data
  - identifying soil and rock types
  - interpreting meteorological data
  - interpreting material properties and test results, including compaction test results
  - interpreting project engineering
  - ring survey information
  - interpreting project plans and drawings
  - interpreting project specifications
- works effectively with others to plan, prepare and conduct the manufacture of bituminous emulsion including:
  - communicating clear and timely instructions to those involved
  - preparing for and conducting briefings, toolbox and site meetings
  - maintaining clear and legible written records and the reports
- demonstrates consistent timely successful application of manufacturing of bituminous emulsion that safely, effectively and efficiently meet all of the required outcomes on a minimum of one (1) occasion including:
  - preparation of job plan, which includes at least five (5) of the following;
    - human resource requirements
    - plant and machinery requirements
    - construction materials requirements
    - sub-contractor support requirements
    - waste disposal requirements
    - coordination requirements
    - activity scheduling
    - materials delivery scheduling
    - risk assessment and management requirements
    - work health and safety requirements
    - quality management requirements, including testing scheduling requirements
    - traffic management requirements
- environmental requirements
- task monitoring requirements
- task performance monitoring requirements
- communication requirements
- reporting requirements
- assessment of resource requirements including at least two (2) of the following;
- labour

- plant, equipment and tools
- material supply vehicles
- construction materials, such as emulsions

sub-contractor services

## Knowledge Evidence

The candidate must demonstrate knowledge in applying the principles for the manufacture of bituminous emulsion through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
  - risk assessment and management
  - statutory compliance
  - workplace health and safety
  - environmental management
  - workplace communication
  - quality management
  - work zone traffic management
  - contract management
  - job administration
  - plant, equipment and tools maintenance
  - product and materials quality and delivery
  - supervising workplace relationships
- understanding and applying bituminous emulsion resource requirements and procedures
- plant and equipment capabilities and application
- operational techniques for the execution of operations
- potential operational problems in the execution of operations
- scheduling work activities
- relationship between various areas of resources and infrastructure industries
- resource requirements
- conducting activities scheduling
- applying estimating principles
- applying polymer modified binder manufacture monitoring methods
- polymer modified binder manufacture and related activities' terminology
- understanding civil works construction sequencing
- applying polymer modified binder manufacture monitoring methods
- accessing, interpreting and applying legislative, organization and site requirement and procedures for:
  - manufacture of bituminous emulsion and related activities' terminology
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## 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 using Resources and Infrastructure Industry sector specific policies, procedures, processes and operational manuals; and,
- an assessor must demonstrate the skills and knowledge of this unit through five (5) years' work experience in the Industry sector; and,
- where the assessor does not have current experience a co-assessment or partnership arrangement needs to exist between the qualified assessor and an Industry technical expert/ subject matter expert. The Industry technical expert/subject matter expert must hold the unit being assessed and be currently working in the sector with a minimum of two (2) years' of current work experience.
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## **Links**

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