



**Australian Government**

# **RIISAM303D Shutdown dredge for operator maintenance**

**Release: 2**

# RIISAM303D Shutdown dredge for operator maintenance

## Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIISAM303A Shut down dredge for operator maintenance                                                                                                                                                                                                                                         |
| 2       | Required frequency and volume of evidence amended in Performance evidence.<br>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 Shutdown dredge for operator maintenance in Civil construction, Metalliferous and Coal mining and Extractive.

This unit is appropriate for those working in operational roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

## Unit Sector

Civil construction

Coal mining

Extractive

Metalliferous mining

## Elements and Performance Criteria

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Plan and prepare for Shutdown dredge and operator maintenance | <p>1.1 Access, interpret and apply service and maintenance 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 the work activities</p> <p>1.5 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p> |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                    |                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | 1.6 Raise and safely secure ladder above water<br>1.7 Conduct retreat away from working face to safe location<br>1.8 Flush out plant<br>1.9 Adjust spuds and/or cable lengths to ensure dredge remains level on pond                                                                                    |
| 2. Move boat line                  | 2.1 Disconnect main power supply to dredge and plant<br>2.2 Move float line to new position ensuring enough slack is available for move                                                                                                                                                                 |
| 3. Check ladder                    | 3.1 Confirm ladder is above water and safely secured<br>3.2 Check ladder at scheduled times<br>3.3 Inspect swing sheave action to assess ladder swing performance<br>3.4 Inspect cutter components and flush flow<br>3.5 Communicate and coordinate activities with others throughout the work activity |
| 4. Conduct operational maintenance | 4.1 Visually inspect dredge to identify faults<br>4.2 Conduct routine operational servicing to ensure peak performance<br>4.3 Repair or refer faults                                                                                                                                                    |
| 5. Conduct housekeeping activities | 5.1 Clean and store equipment and attachments<br>5.2 Complete records and documentation                                                                                                                                                                                                                 |

## 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

RIISAM303A Shutdown dredge for operator maintenance

## 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 RIISAM303D Shutdown dredge for operator maintenance

## Modification History

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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 relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient shutting down of dredges for operator maintenance including:
  - organisation and site requirements and procedures
  - diagnostic techniques
  - decision making process
  - directing operations
  - hazard identification procedures
  - handling hazardous goods
  - ground conditions
  - documents, plans, reports, maps, specifications
  - record maintenance requirements
  - operational monitoring
  - work tasks
  - defect reporting requirements
  - employing safe work practices
  - selecting and wear personal protective equipment
  - working in a team
  - troubleshooting techniques
  - communications equipment

- computer systems
- works effectively with others to shutdown dredge for operator maintenance 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
  - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
- demonstrates completion of shutting down dredge for operator maintenance that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
  - planning and preparing for shutdown dredge for operator maintenance including:
    - raising and securing ladder
    - flushing out plant
    - taking dredge off feed
    - moving boat lines
    - checking the ladder
    - inspecting all dredge components and identifying faults
    - conducting routine operational maintenance
    - repairing or referring faults
    - housekeeping activities

## Knowledge Evidence

The candidate must demonstrate knowledge in shutdown dredge for operator maintenance through:

- accessing, interpreting and applying the organisational and site requirements and procedures for;
  - work health and safety
  - environmental and heritage
  - anchoring
  - anchor move
  - dredge preparation
  - dredge clean up
  - isolation
  - ladder maintenance
  - monitoring
  - night and day working
  - open cut – dredging
  - operational checks
  - start up

- shutdown
- sounding
- float line
- center line
- dredge maneuvering
- plant move
- retreat
- side-line cable replacement
- applying equipment processes, technical capability, limitations and safety requirements
- interpreting indicator readings
- identifying ladder swing capability and limitations
- interpreting and applying site operational systems
- identifying working face dangers

## 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 is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; 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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