



Australian Government

RIIMEX301D Conduct dredging operations

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIIMEX301A Conduct Dredging Operations
2	Editorial corrections
3	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 conduct dredging operations in Metalliferous mining and Extractive.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for dredging operations	1.1 Access, interpret and apply dredging operations 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 Inspect and prepare work area in coordination with others 1.6 Prepare a work plan that effectively, efficiently and safely meets the work requirements
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	1.7 Obtain and interpret emergency procedures, and be prepared for an emergency
2. Operate dredge	2.1 Communicate with others at the site, and resolve coordination requirements prior to commencing and during work activities 2.2 Carry out pre-start, start-up, mooring and shutdown procedures 2.3 Relocate position and secure dredge for operation 2.4 Select and modify operating techniques to suit changing work conditions 2.5 Conduct, control and monitor operations within the equipment limitations 2.6 Act on or report monitoring systems and alarms 2.7 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 2.8 Complete work the plan within the operating capacity of the equipment
3. Carry out post-operational procedures	3.1 Inspect, fault find, report and recommend corrective actions 3.2 Process written records and reports
4. Conduct housekeeping activities	4.1 Clean, check, maintain and store plant, tools and equipment 4.2 Report issues identified with plant, tools and equipment

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

RIIMEX301A Conduct dredging 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 RIIMEX301D Conduct dredging operations

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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 completion of dredging operations including:
 - selecting and using relevant tools and equipment
 - working wearing personal protective equipment
 - hazard identification and reporting defects
 - handling hazardous substances/materials including:
 - disposal of environmentally sensitive fluids and materials
 - applies chemical and fuel safety measures
 - interpreting documents, plans, reports, maps, specifications
 - maintaining equipment records
 - interpreting and responding to environment/ground conditions
 - works effectively with others to undertake and complete dredging operations 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
 - using computer systems and communications equipment

- applying operations directing techniques
- demonstrates completion of conducting dredging operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - organising work tasks and applying diagnostic, problem solving, and decision making techniques
 - relocating and securing dredge ready for operations
 - conducting dredging operations
 - modifying operating techniques in response to changing conditions
 - operating dredge

Knowledge Evidence

The candidate must demonstrate knowledge of conducting dredging operations through:

- site product characteristics and the mine operational system
- site geological and survey data, including identifying working face dangers
- indicator readings
- hazardous goods procedures and consequences of spills
- dredge and equipment processes and characteristics including:
 - technical capabilities and limitations
 - pre-start, start-up, operating and shutdown procedures
 - anchoring and anchor move procedures
 - sounding, centre-line and retreat procedures
 - side-line cable replacement procedures
 - ladder swing capability and limitations
 - dredge preparation and clean up procedures

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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