



Australian Government

RIIMEX402E Supervise dredging operations

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 7.0.

Application

This unit describes the skills and knowledge required to supervise dredging operations in civil construction, metalliferous mining and extractive industries. It involves accessing and analysing survey and geological data and implementing appropriate operational techniques.

The unit applies to those working in supervisory roles. They generally perform a broad range of operational activities in their area of responsibility and are responsible for monitoring a safe work environment.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Civil construction

Extractive

Metalliferous mining

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare for supervision of dredging operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply dredging operation documentation and confirm the work activity is compliant 1.3 Identify potential hazards and environmental issues, implement control measures within scope of own role and escalate where required 1.4 Identify team training needs and confirm required

ELEMENT	PERFORMANCE CRITERIA
	training is provided 1.5 Select and wear personal protective equipment according to site requirements 1.6 Access, share and clarify the geological and survey data with team members 1.7 Prepare an implementation action plan 1.8 Acquire and make available the necessary resources for the dredging operation 1.9 Communicate instructions to team members involved
2. Monitor, adjust and report on execution of the dredging operations	2.1 Confirm safe execution of the dredging plan 2.2 Monitor dredging operation performance and confirm achievement of planned outcomes 2.3 Identify opportunities for improvement and adjust activities accordingly 2.4 Complete and submit reports according to site and job requirements 2.5 Identify opportunities to improve the safety, efficiency and effectiveness of the dredging operations

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates basic measurements including mass and dimensions
Oral communication	- Presents information and provide assistance using industry specific vocabulary - Uses listening and questioning to clarify and confirm understanding
Reading	Identifies critical information from the organisational plan, work programs and team members' individual training needs assessments to design a program for team skills development
Self-management	Monitors and minimises own exposure to worksite risks and hazards during activities
Planning and organising	- Manages time and priorities, setting timelines and coordinating tasks for self and with others - Participates in continuous improvement and planning processes
Writing	Completes maintenance records using sector specific vocabulary,

SKILL	DESCRIPTION
	grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIMEX402D Supervise dredging operations.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIMEX402E Supervise dredging operations

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- supervise dredging operations on at least two occasions, including:
 - assessing and assigning required plant and equipment and operational techniques
 - monitoring dredging operations and making required adjustments for variances and non-achievement
 - assessing outcomes to make reasoned recommendations and writing reports
 - identifying and analysing hazards and implementing control measures
 - preparing training plans.

During the above, the candidate must:

- locate and apply relevant legislation, documentation, policies and procedures
- implement the requirements, procedures and techniques to supervise dredging operations safely, effectively and efficiently, including:
 - interpreting, applying and communicating work instructions
 - wearing required personal protective equipment
 - performing basic mathematical calculations
 - accessing and analysing survey and geological data
 - selecting and assigning resources, plant and equipment
- work effectively with others to undertake and complete supervision of dredging operations that meets the required outcomes, including:
 - complying with written and verbal reporting requirements and procedures
 - using communication techniques required to convey information to others
 - communicating with others to resolve coordination requirements prior to commencing and during work activities
 - providing instruction to team members involved in dredging operations
 - identifying the training needs of others and preparing training plans.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislative requirements relating to supervising dredging operations
- policies, procedures and documentation relating to dredging operations, including those relating to:
 - environmental protection
 - fire, accident and emergency
 - personal protective equipment
 - site operational, quality and communication requirements
 - site product characteristics
 - site requirements
 - work health and safety
 - workplace recording and reporting requirements
- principles, methods and techniques for supervising dredging operations, including those relating to:
 - accessing and analysing survey and geological data
 - applying problem solving skills to technical resources and infrastructure issues
 - identifying training needs of others and preparing training plans
 - organising, work planning and work monitoring
 - performing basic mathematical calculations
 - providing instruction to team members involved in dredging operations
 - researching, analysing and supervising dredging operations
 - writing reports to communicate procedural activity, breach or inadequacies to procedure and review process of the dredging operations.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - an environment where dredging operations is required
 - equipment required for dredging operations
 - simulated or actual documentation of work requirements and reports
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert	

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
	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.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

***While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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