



Australian Government

Department of Education, Employment and Workplace Relations

RIIPRO501A Implement site processing plant operations

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the implementation of processing plant operations on a worksite in extractive industries. It includes: preparation for, planning, initiating, monitoring and adjusting and reporting on the implementation of processing operations.

Application of the Unit

This unit is appropriate for those working in a management role or as a technical specialist, managing or advising on site processing plant operations in an extractive operation within:

- Extractive industries

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</p>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for processing operations	1.1. Access, interpret and apply <i>compliance documentation</i> relevant to the implementation of processing plant operations 1.2. Confirm the <i>geological and survey data</i> relevant to the planning and implementation of processing plant operations 1.3. Access, interpret and clarify the <i>parameters</i> relevant to the planning and implementation of the processing plant operations
2. Plan the processing program	2.1. Involve <i>internal and external stakeholders</i> in the planning process in a way that uses their contribution effectively and gains their support for the outcomes 2.2. <i>Select and identify source of the equipment</i> to be used for the safe, effective and efficient implementation of the <i>processing plan</i> 2.3. Develop and document the processing plan in accordance with the processing operations parameters, the confirmed geological and survey data 2.4. Identify and acquire the <i>resource</i> required for the implementation of the processing plan 2.5. Identify and arrange any training required for personnel involved in the processing plan 2.6. Prepare and present the processing plan budget
3. Implement, monitor and adjust the processing program	3.1. Issue and explain the processing plan to team members and others involved, for the safe, effective and efficient implementation of the plan 3.2. Provide timely ongoing support and advise to those implementing the processing plan 3.3. Ensure that the dredge area is correctly marked out in accordance with the processing plan 3.4. Ensure records and reports are maintained

	<p>and issued in accordance with the processing plan requirements</p> <p>3.5. Monitor the processing plan performance against processing plant operating parameters, the budget</p> <p>3.6. Resolve anomalies in consultation with relevant stakeholders and issue appropriate instructions for adjustments to the plan and/or its implementation</p>
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Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to implement processing plant operations:

- apply legislative, organisation and site requirements and procedures
- interpret and apply geological and survey data
- provide team leadership
- apply procedure for choosing operational techniques
- apply procedures for choosing and assigning plant and equipment
- apply procedures for developing, initiating and administering work plans
- interpret and apply operational performance data

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to implement processing plant operations:

- site risk, statutory compliance, health, safety, environmental, quality and communication requirements and procedures
- geological and survey data
- processing parameters
- processing options and procedures
- operational techniques required for execution of the plan
- plant and equipment capabilities
- work planning techniques
- team leadership techniques
- consultative and coaching techniques
- work monitoring methods
- recording and reporting systems

Evidence Guide

<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<p>Overview of assessment</p>	
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for the implementation of processing plant operations • implementation of procedures and techniques for the safe, effective and efficient implementation of the processing plant operations • the identification of the relevant information and scope of the work required to meet the required outcomes • the identification of viable options and the selection of processing plant options that best meet the required outcomes • working with others to undertake and complete the implementation of processing plant operations • consistent successful implementation of processing plant operations
<p>Context of and specific resources for assessment</p>	<ul style="list-style-type: none"> • This unit must be assessed in the context of the 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 workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those

	<p>required on the job.</p> <ul style="list-style-type: none"> • Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues. • Assessment of this competency requires typical resources normally used in a civil works environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
<p>Method of assessment</p>	<p>This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge to apply in undertaking of the implementation of processing plant operations • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • identification of the relevant information and scope of the work required to meet the required outcomes • identification of viable options and the selection of processing plant options that best meet the required outcomes • consistently achieving the required outcomes • first hand testimonial and documentary evidence of the candidate's: <ul style="list-style-type: none"> • working with others to undertake and complete the implementation of processing

	<p>plant operations</p> <ul style="list-style-type: none">• provision of clear and timely required support and advice on the implementation of processing plant operations
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p>Relevant compliance documentation may include:</p>	<ul style="list-style-type: none"> • legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
<p>Geological may include:</p>	<ul style="list-style-type: none"> • rock, sand and/or gravel type and characteristics • deposit strata
<p>Survey data may include:</p>	<ul style="list-style-type: none"> • drainage requirements • site and neighbouring land form • site and neighbouring boundaries and structures • site and neighbouring roads and other infrastructure
<p>Parameters may include:</p>	<ul style="list-style-type: none"> • legislative requirements • development consent requirements • operating hours limitations • required production volumes • product requirements • quality requirements • existing processing plant capacity • catering for the rock, sand or gravel characteristics
<p>Internal and external stakeholders may include:</p>	<ul style="list-style-type: none"> • site and off-site employees • contractors • equipment suppliers • geologists, surveyors and/or draughtspersons • regulatory authorities representatives • community representatives • site neighbours

<p>Select and identify source of the equipment may include:</p>	<ul style="list-style-type: none"> • site geological factors • processing plan parameters • availability of organisation's equipment • availability of contractors equipment • comparative costs of various options
<p>Processing plan may include:</p>	<ul style="list-style-type: none"> • risk management requirements • occupational health and safety requirements • environmental requirements • hours of operation • production targets, including total volume and hourly rate • downtime targets • product mix requirements • product specifications • raw feed delivery requirements • raw feed selection requirements • raw feed blending requirements • raw feed and in-production surge pile requirements • product stockpiling requirements • quality testing requirements • tailings deposition/treatment requirements and procedures • reporting and record requirements and procedures
<p>Resource may include:</p>	<ul style="list-style-type: none"> • financial • labour • materials • services • plant and • equipment

Unit Sector(s)

Processing (General)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.