



Australian Government

Department of Education, Employment and Workplace Relations

RIIMEX401A Apply pit plan

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the application of the pit plan in the coal and metalliferous mining and extractive industries. It includes the requirements for planning, preparing for, initiating, monitoring, adjusting and reporting on the execution of the plan.

Application of the Unit

This unit is appropriate for those working in a supervisory or technical specialist roles, within:

- Coal mining
- Extractive industries
- Metalliferous mining

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

Elements describe the essential outcomes of a unit of competency.	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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan, prepare for and initiate pit operations tasks	1.1. Access, interpret and apply compliance documentation relevant to the undertaking of pit operations 1.2. Access and share with team members the geological and survey data required to complete the pit operations task. 1.3. Access and share with team members the overall and the short term objectives of the site pit plan 1.4. Identify, investigate and evaluate likely hazards involved in the extraction operation and activities that require appropriate controls to maintain safety whilst achieving production targets 1.5. Prepare an action plan , in consultation with team members, which makes best use of the available resource and takes into account the requirements of the pit plan 1.6. Acquire and make available the necessary resources for the safe, effective and efficient conduct of pit operations task 1.7. Issue clear and timely instructions to team members and others involved for the safe, effective and efficient conduct in the pit operations tasks
2. Monitor, adjust and report on execution of the pit plan	2.1. Ensure safe, effective and efficient execution of pit operations tasks 2.2. Monitor pit plan performance to ensure achievement of planned outcomes 2.3. Initiate adjustments to work programs to take into account non-achievement of planned outcomes. 2.4. Complete and submit reports as required by the pit plan and other relevant requirements and procedures 2.5. Recommend changes to improve the safety, efficiency and effectiveness of the pit plan

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 apply pit plans:

- apply legislative, organisation and site requirements and procedures
- provide team leadership
- apply communication skills
- choose extraction and associated techniques
- choose and assign plant and equipment
- apply procedures to develop and administer work plans
- write reports

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 apply pit plans:

- site risk, statutory compliance, health, safety, environmental, quality and communication requirements and procedures
- pit plan
- team leadership techniques
- operational techniques required for execution of the plan
- relevant plant and equipment operations appreciation
- work planning techniques
- work monitoring methods

Evidence Guide

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.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	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: • knowledge of the requirements, procedures and instructions for the application of the pit plan • implementation of appropriate procedures and techniques for the safe, effective and efficient application of the pit plan • working with others to plan, prepare and apply the pit plan • provision of clear and timely instruction and supervision by the individual of those involved in applying the pit plan • evidence of the consistent successful application of the pit plan
Context of and specific resources for assessment	• 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 required on the job. • 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 the work 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.
Method of assessment	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: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to plan, prepare and apply the pit plan • provision of clear and timely instruction and supervision by the individual of those involved in the application of the pit plan
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

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.

Relevant compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • codes of practice • Employment and Workplace Relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Geological data may include relevant site-specific information in relation to:	• rock type and characteristics • faults and joints • water tables or other water sources
Survey data may include relevant site-specific information in relation to:	• floor heights • bench widths • grades
Pit plan may include:	• limits of extraction area • land clearing and overburden stripping and stockpiling • raw feed extraction requirements (such as sequencing, face heights, bench widths) • bank stability criteria and supervision requirements • raw feed blending requirements • access and in-pit road requirements (such as grades, widths, turning and passing areas) • dewatering and water management requirements and procedures • finished pit shape and face requirements • rehabilitation and environmental works requirements (progressive and final) • tailings deposition/treatment requirements and procedures • roads maintenance requirements and procedures • reporting and record requirements and

	procedures
Hazard is defined as:	• a source of potential harm or a situation with a potential to cause loss
Action plan may include:	• extraction method • sequencing of activities • targets for the work group • materials transport • stockpiling • support services • waste dumping • measures to meet quality requirements
Resources may include:	• labour • materials • services • equipment
Instructions may issued in briefings, handovers, and work orders and may include:	• nature and scope of tasks • achievement targets • operational conditions • obtaining permits required • site layout • out of bounds areas • worksite inspection requirements • lighting conditions • plant or equipment defects • hazards and potential hazards • coordination requirements or issues
Pit plan performance critical aspects greatly depend on the type of mining and the activities being carried out by each work group. Some examples include:	• sequence of operations • interdependence of extraction and transport units • haul road, crusher and potential limiters • reliability of plant and recovery options • blasting timing size and interaction with other mining activities • in pit, waste dump and stockpile reserves, available storage space • potential bottlenecks in the production system • weather dependent activities • timing of maintenance activities and other stop events • time to completion of current step in site development • road maintenance

	• flooding
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Unit Sector(s)

Materials Extraction

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.