



Australian Government

RIIMCU605D Establish and maintain the inrush management plan

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMCU605A Establish and maintain the inrush management plan
2	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 establish and maintain the inrush management plan in Coal mining.

This unit is appropriate for those working in management roles

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Coal mining (Underground)

Elements and Performance Criteria

1. Plan and prepare to establish and maintain the inrush management plan	1.1 Access, interpret and apply inrush management system documentation, and ensure the work activity is compliant 1.2 Identify the potential sources and effects of inrushes 1.3 Analyse and evaluate mine site historical information for indications of inrush potential 1.4 Identify, analyse and evaluate geological and physical conditions that contribute to inrush potential 1.5 Identify, analyse and evaluate inrush hazards and risks 1.6 Identify, analyse and evaluate the effects of inrush on mine operations and personnel
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2. Identify, analyse and evaluate potential inrush controls	2.1 Identify, analyse and evaluate potential inrush controls 2.2 Identify, analyse and evaluate inrush controls to deal with matters identified from the review of historical information 2.3 Identify, analyse and evaluate inrush controls to deal with geological and physical conditions 2.4 Identify, analyse, evaluate and confirm the validity of mine plans and associated records 2.5 Identify, analyse and evaluate the methods, purposes and capabilities of mine monitoring systems
3. Design and develop inrush management systems	3.1 Design and develop inrush controls for addressing inrush hazards for the inrush management system 3.2 Determine personnel safety measures and techniques into the inrush management system 3.3 Design and/or incorporate services and infrastructure protection measures into the inrush management system 3.4 Design and develop mine monitoring requirements relating to inrush 3.5 Integrate the system elements to complete the inrush management system design
4. Establish the inrush management plan	4.1 Develop and establish inrush hazard identification, analysis and reporting procedures 4.2 Establish actions and procedures required in response to inrush indicators 4.3 Develop permit-to-mine procedures 4.4 Establish personnel safety measures and techniques 4.5 Establish services and infrastructure protection measures to minimise damage caused by inrush 4.6 Establish the monitoring, recording and reporting procedures 4.7 Establish emergency response and evacuation plans 4.8 Establish training requirements for the inrush management plan
5. Plan and prepare for the implementation of the inrush management plan	5.1 Access, interpret and clarify the inrush management plan 5.2 Identify, clarify and communicate to all personnel roles and responsibilities, as specified in the inrush management plan 5.3 Identify, forecast, obtain and allocate/schedule resources required for the implementation of the inrush management plan 5.4 Implement the inrush management plan training program

	5.5 Review inrush management plan implementation procedures, and implement required changes
6. Audit and review the effectiveness of the inrush management plan	6.1 Audit the inrush management system 6.2 Audit mine monitoring systems 6.3 Audit inrush hazard identification, monitoring and response procedures 6.4 Audit recording plans and procedures 6.5 Audit inrush training plan for currency, relevance and compliance with the requirements of the inrush management system 6.6 Identify and respond promptly to instances of non-compliance or other discrepancies/deficiencies revealed by audit 6.7 Maintain written records, reports and policy 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

RIIMCU605A Establish and maintain the inrush management plan

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 RIIMCU605D Establish and maintain the inrush management plan

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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 that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the procedures and techniques for the safe, effective and efficient establishment and maintenance of the inrush management plan including:
 - assessing the risks and consequences of inrush
 - operating hand held monitoring equipment
 - accessing and evaluating data from monitoring equipment
 - performing inrush planning mathematical calculations
 - interpreting and applying mathematical and scientific theorems/laws related to inrush
 - accessing and applying design criteria for inrush management systems
 - interpreting computer spreadsheets and inrush modelling/simulations
 - accessing and analysing archival and historical water storage and inrush information related to the mine
- works effectively with others to undertake and complete the establishment and maintenance of the inrush management plan including:
 - communicating clearly and concisely with others to receive and clarify work instructions, and convey work progress
 - identifying the relevant information and scope of the work necessary to meet the required outcomes
 - developing procedures appropriate to mine operations for prevention of inrush

- demonstrates completion of establishing and maintaining the inrush management system that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying viable options and the selection of inrush management techniques that best meet the required outcomes
 - developing and establishing inrush hazard identification, analysis and reporting procedures
 - establishing inrush training requirement
 - conducting enquiries / investigations and preparing reports

Knowledge Evidence

The candidate must demonstrate knowledge in establishing and maintaining the inrush management plan through:

- identifying and evaluating systems of work
- identifying and assessing factors affecting stability of mining structures
- mine mapping of inrush zones, related geology and features
- identifying and evaluating the impact of differing geological features and conditions on inrush zones
- identifying and evaluating use of monitoring systems and techniques
- identifying and applying emergency response and evacuation/disaster planning processes and techniques

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 must be assessed in the context of this sector's work environment; 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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