

# Competencies recognised by the Mining Safety and Health Advisory Committee

## Mining and Quarrying Safety and Health Act 1999 (Qld)

### Mining and Quarrying Safety and Health Regulation 2017

*Note:* The competencies determined for the respective positions and operative date for the acquisition of such competencies may be amended by the Committee from time to time if amendments are deemed necessary.

No.	Act/Regulation	Position	Required competency	Effective date
1a	Act – section 49 (1)	Site senior executive	RIIRIS301D Apply risk management processes (previously RIIRIS301B, RIIRIS301A QMS1, MNMG325A or MNQGEN300A or MNCG1001A) This applies to SSEs on mines employing more than 10 persons.	1/01/2003
1b	Act – section 49 (1)	Site senior executive, appointed <b>after</b> 1 July 2018, on a surface mine or quarry employing more than 20 persons.  Site senior executive, appointed <b>after</b> 1 July 2018, on a surface mine or quarry employing between 6 and 20 persons.	Unless directed otherwise by an inspector: <ul style="list-style-type: none"> <li>• 5 years experience in mining or quarrying of which at least 2 years have been in a supervisory role, and</li> <li>• RII50113 Diploma of Surface Operations Management (or an equivalent or superior qualification), and</li> <li>• RIIRIS501D Implement and maintain management systems to control risk (or an equivalent or superior qualification).</li> </ul> If blasting is to take place: <ul style="list-style-type: none"> <li>• a recognised shot-firers licence, or</li> <li>• the 3 competency units—RIIBLA301D Conduct surface shot firing operations, RIIBLA205D Store handle and transport explosives, RIIBLA305D Conduct secondary blasting, or</li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul> Unless directed otherwise by an inspector: <ul style="list-style-type: none"> <li>• 5 years experience in mining or quarrying of which at least 2 years have been in a supervisory role (or as determined by an Inspector of Mines given the nature and complexity of the operation), and</li> <li>• RII40115 Certificate IV in Surface Extraction Operations (or an equivalent or superior qualification), and</li> <li>• RIIRIS501D Implement and maintain management systems to control risk (or an equivalent or superior qualification); and</li> <li>• BSBWHS501 Ensure a safe workplace. (or an equivalent or superior qualification).</li> </ul> ( <i>Note: RIIRIS501D and BSBWHS501 may be utilised as electives in the packaging rules of RII40115</i> )	1/07/2020

No.	Act/Regulation	Position	Required competency	Effective date
		Site senior executive on a surface mine or quarry, other than an opal or gem mine, employing 5 or fewer persons.	<p>If blasting is to take place:</p> <ul style="list-style-type: none"> <li>• a recognised shot-firers licence, or</li> <li>• the 3 competency units - RIIBLA301D Conduct surface shot firing operations, RIIBLA205D Store handle and transport explosives, RIIBLA305D Conduct secondary blasting, or</li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul> <p>Unless directed otherwise by an inspector:</p> <ul style="list-style-type: none"> <li>• 2 years experience in mining or quarrying over the previous 5 years (or as determined by an Inspector of Mines given the nature and complexity of the operation), and</li> <li>• completion of the training courses <ul style="list-style-type: none"> <li>– Introduction to Safety Management Systems, and</li> <li>– Effective Risk Management, and</li> <li>– Incident Investigation, and</li> <li>– Electrical Awareness</li> </ul> </li> </ul> <p>If blasting is to take place:</p> <ul style="list-style-type: none"> <li>• a recognised shot-firers licence, or</li> <li>• the 3 competency units - RIIBLA301D Conduct surface shot firing operations, RIIBLA205D Store handle and transport explosives, RIIBLA305D Conduct secondary blasting, or</li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul>	
1c	Act – section 49 (1)	Site senior executive, appointed <b>before</b> 1 July 2018, on a surface mine or quarry employing more than 20 persons.	<p>Unless directed otherwise by an inspector:</p> <ul style="list-style-type: none"> <li>• 5 years experience in mining or quarrying of which at least 2 years have been in a supervisory role, and</li> <li>• RIIRIS501D Implement and maintain management systems to control risk, and</li> <li>• BSBWHS501 Ensure a safe workplace, (or an equivalent or superior qualification).</li> </ul> <p>If blasting is to take place:</p> <ul style="list-style-type: none"> <li>• a recognised shot-firers licence, or</li> <li>• the 3 competency units - RIIBLA301D Conduct surface shot firing operations, RIIBLA205D Store handle and transport explosives, RIIBLA305D Conduct secondary blasting, or</li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul>	

No.	Act/Regulation	Position	Required competency	Effective date
		Site senior executive, appointed <b>before</b> 1 July 2018, on a surface mine or quarry employing between 6 and 20 persons.	<p>Unless directed otherwise by an inspector:</p> <ul style="list-style-type: none"> <li>• 5 years experience in mining or quarrying of which at least 2 years have been in a supervisory role (or as determined by an Inspector of Mines given the nature and complexity of the operation), and</li> <li>• RIIRIS501D Implement and maintain management systems to control risk, and</li> <li>• BSBWHS501 Ensure a safe workplace, (or an equivalent or superior qualification).</li> </ul> <p>If blasting is to take place:</p> <ul style="list-style-type: none"> <li>• a recognised shot-firers licence, or</li> <li>• the 3 competency units - RIIBLA301D Conduct surface shot firing operations, RIIBLA205D Store handle and transport explosives, RIIBLA305D Conduct secondary blasting, or</li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul>	
2	Act – section 51	Supervisor	<p>RIIRIS301D Apply risk management processes (previously RIIRIS301B, RIIRIS301A QMS1, MNMG325A or MNQGEN300A or MNCG1001A),  RIIWHS301D Conduct safety and health investigations (previously RIIOHS301A, QMS2 or MNMG326A or MNQGEN310A or MNCG1008A) and  RIICOM301D Communicate information (previously RIICOM301B, RIICOM301A, QMS3 or MNMG327A or MNQGEN340A or MNCG1009A).</p> <p>This applies to:</p> <ul style="list-style-type: none"> <li>• supervisors on mines employing more than 10 persons and where the position is identified in the management structure as one whose duties includes allocation of tasks to others, and</li> <li>• other supervisors where directed by an inspector of mines.</li> </ul>	01/01/2003
3	Act – section 53(3)	Underground mine manager (if 20 or more persons work underground)	First Class Mine Manager's Certificate of Competency issued by the Board of Examiners, and RIIRIS601D Establish and maintain the risk management system (previously RIIRIS601A, MNMMSM617A or MNQGEN600A) from the national Training Package or its equivalent.*1	16/03/2001
4	Act – section 86	Site safety and health representative	<p>RIIRIS301D Apply risk management processes (previously RIIRIS301B, RIIRIS301A, QMS1 or MNMG325A or MNQGEN300A or MNCG1001A),  RIIWHS301D Conduct safety and health investigations (previously RIIOHS301A, QMS2, MNMG326A or MNQGEN310A or MNCG1008A) and  RIICOM301D Communicate information (previously RIICOM301B, RIICOM301A, QMS3, MNMG327A or MNQGEN340A or MNCG1009A).</p> <p><i>These competencies to be obtained within three months of appointment.</i></p>	01/04/2006  01/04/2002

No.	Act/Regulation	Position	Required competency	Effective date
5	Regulation – section 17	Person to control electrical work	Electrical mechanic, or holder of a Diploma or Advanced Diploma or Degree in Electrical Engineering.	27/10/2012
6	Regulation – section 21(1)	Person to undertake work on explosion protected electrical equipment	Relevant competencies as defined in Australian Standard AS4761.1.	17/08/2001
7	Regulation – section 64 (2)(b)(ii)	Person handling and using explosives	Competencies as appropriate to the mine site and mapped against the relevant national training package competencies.	16/03/2001
8	Act – section 58 (5)(a)	<p>A person certifying the accuracy of survey plans for a surface mine where there are more than 10 workers.</p> <p>A person certifying the accuracy of survey plans for a surface mine where there are 10 or fewer workers (unless directed otherwise by an inspector).</p>	<ul style="list-style-type: none"> <li>• Mine Surveyor Certificate granted under the <i>Mines Regulation Act 1964</i>; or</li> <li>• RIISDM501D Conduct mine surveying operations (previously RIISDM501A, MNMG100A or MNCG1000A), and 2 years mine surveying experience; or</li> <li>• a person registered as a surveyor or surveying associate under the <i>Surveyors Act 2003</i>, Queensland; or</li> <li>• a person registered as a Mining Surveyor by the Board of Surveying and Spatial Information (BOSSI) of NSW; or</li> <li>• a person granted an Authorised Mine Surveyors Certificate under the Mines Safety and Inspection Regulations 1995 Western Australia (either grade 1 or grade 2).</li> </ul> <p>A person appointed by the site senior executive and who is sufficiently competent in surveying to ensure the plans comply with the requirements of section 58 of the Act.</p>	<p>01/12/2009</p> <p>01/10/2008</p>

No.	Act/Regulation	Position	Required competency	Effective date
9	Act – section 58 (5)(b)	<p>A person certifying the accuracy of survey plans for an underground mine where there are more than 10 workers.</p> <p>A person certifying the accuracy of survey plans for an underground mine where there are 10 or fewer workers (unless directed otherwise by an inspector).</p>	<ul style="list-style-type: none"> <li>• Mine Surveyor Certificate (All Mines) granted under the <i>Mines Regulation Act 1964</i>; or</li> <li>• RIISDM501D Conduct mine surveying operations (previously RIISDM501A, MNMG1000A or MNCG1000A), and 3 years underground mine surveying experience that includes experience of 1 year in Australia; or</li> <li>• a person registered as a surveyor with a mining endorsement under the <i>Surveyors Act 2003</i>, Queensland; or</li> <li>• a person registered as a Mining Surveyor by the Board of Surveying and Spatial Information (BOSSI) of NSW; or</li> <li>• a person granted an Authorised Mine Surveyors Certificate under the Mines Safety and Inspection Regulations 1995 Western Australia - grade 1 for underground mines and quarries.</li> </ul> <p>A person appointed by the site senior executive and who is sufficiently competent in surveying to ensure the plans comply with the requirements of section 58 of the Act.</p>	<p>01/07/2008</p> <p>01/10/2008</p>
10	Act – section 39(1)(f)(ii)	Persons undertaking electrical activities or electrical work	Appropriate electrical workers licence or competency required under the Electrical Safety Act 2002, for the activity or work undertaken.	01/11/2017
11	Guideline for Management of Respirable Crystalline Silica in Queensland Mineral Mines and Quarries (QGL02)	Persons carrying out respirable dust sampling at a mineral mine or quarry in accordance with AS2985	<ol style="list-style-type: none"> <li>1. BSBWHS409 delivered by SIMTARS or competency based training equivalent to BSBWHS409 delivered by Coal Services NSW</li> <li>and</li> <li>2. competency based training delivered by SIMTARS or Coal Services NSW that addresses each of the following: <ol style="list-style-type: none"> <li>i. sampling to AS 2985—2009 Australian standard: workplace atmospheres—method for sampling and gravimetric determination of respirable dust</li> <li>ii. appropriate data to be collected during sampling, including observations</li> <li>iii. use and applications of real-time monitors</li> <li>iv. use and application of an anemometer</li> <li>v. dust observation methods and best practices for underground mines</li> <li>vi. dust observation methods and best practices for surface mines</li> </ol> </li> </ol>	18/05/2018

No.	Act/Regulation	Position	Required competency	Effective date
12	Act – section 54A(3)(b)	Ventilation officer	RIIUND603D Manage, operate and maintain the mine ventilation system, and RIIUND601D Establish and maintain the ventilation management system as delivered by SIMTARS, and successful completion of an assessment examination conducted by SIMTARS or the University of New South Wales Graduate Diploma of Mine Ventilation or qualifications obtained and recognised under an alternative jurisdiction and accepted by the Chief Inspector (Mineral Mines and Quarries).	18/09/2021

\*1 Equivalent means: A competency mapped to the above and found to be equivalent, such as MMME 7033, MINE 7033, MINE7033 “Global Minerals Industry Risk Management”, or “Global Minerals Industry Risk Management - GMIRM” from the Mining Industry Safety and Health Centre of the University of Queensland.

Information on training packages, training providers and competency standards is available from various websites, including [www.skillsdmc.com.au](http://www.skillsdmc.com.au), [www.energyskillsqld.com.au](http://www.energyskillsqld.com.au) and [www.training.gov.au](http://www.training.gov.au)

Date of agreed update	Reason for update
12 November 2018	Addition of competency for ventilation officer to support changes to the <i>Mining and Quarrying Safety and Health Act 1999</i> made in the <i>Mines Legislation (Resources Safety) Amendment Act 2018</i> .
20 April 2018	<ul style="list-style-type: none"> <li>Agreed update to site senior executive competencies for surface mines and quarries, including if blasting is to take place.</li> <li>New competency related to persons carrying out respirable dust sampling at a mineral mine or quarry mine in accordance with AS2985.</li> </ul>
25 January 2018	Mining and Quarrying Safety and Health Regulation 2001 superseded by Mining and Quarrying Safety and Health Regulation 2017.
14 September 2017	Agreed amendment to clarify licensing and competency requirements for undertaking electrical work and electrical activities on a mineral mine or quarry.
8 April 2016	Updated units of competencies from RII09 to RII Training Package accordingly to the recommended usage. Updated superseded units of competency to include reference to the Metalliferous and Extractive Industries Mining Training Package.
27 September 2012	Agreed update to the requirements for the person to control electrical work, with ‘Electrical fitter mechanic’ being replaced with ‘Electrical mechanic’.