

# 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	RIIRIS301E Apply risk management processes (previously RIIRIS301D, 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 (or operations relevant to those being conducted as determined by an Inspector of Mines e.g. exploration) of which at least 2 years have been in a supervisory role; <b>and</b></li> <li>RII50113 Diploma of Surface Operations Management (or an equivalent or superior qualification relevant to the operations being conducted); <b>and</b></li> <li>RIIRIS501E Implement and maintain management systems to control risk (previously RIIRIS501D), 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; <b>or</b></li> <li>the 3 competency units—RIIBLA301E Conduct surface shot firing operations (previously RIIBLA301D), RIIBLA205E Store handle and transport explosives (previously RIIBLA205D), and RIIBLA305E Conduct secondary blasting (previously RIIBLA305D); <b>or</b></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 (or operations relevant to those being conducted as determined by an Inspector of Mines e.g. exploration) 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); <b>and</b></li> <li>RII40115 Certificate IV in Surface Extraction Operations (or an equivalent or superior qualification relevant to the operations being conducted); <b>and</b></li> </ul>	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.	<ul style="list-style-type: none"> <li>• RIIRIS501E Implement and maintain management systems to control risk (previously RIIRIS501D), or an equivalent or superior qualification; <b>and</b></li> <li>• BSBWHS521 Ensure a safe workplace for a work area (previously BSBWHS501), or an equivalent or superior qualification.</li> </ul> <p><i>(Note: RIIRIS501E and BSBWHS521 may be utilised as electives in the packaging rules of RII40115)</i></p> <p>If blasting is to take place:</p> <ul style="list-style-type: none"> <li>• a recognised shot-firers licence; <b>or</b></li> <li>• the 3 competency units—RIIBLA301E Conduct surface shot firing operations (previously RIIBLA301D), RIIBLA205E Store handle and transport explosives (previously RIIBLA205D), and RIIBLA305E Conduct secondary blasting (previously RIIBLA305D); <b>or</b></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 (or operations relevant to those being conducted as determined by an Inspector of Mines e.g. exploration) over the previous 5 years (or as determined by an Inspector of Mines given the nature and complexity of the operation); <b>and</b></li> <li>• completion of the training courses <ul style="list-style-type: none"> <li>– Introduction to Safety Management Systems; <b>and</b></li> <li>– Effective Risk Management; <b>and</b></li> <li>– Incident Investigation; <b>and</b></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; <b>or</b></li> <li>• the 3 competency units—RIIBLA301E Conduct surface shot firing operations (previously RIIBLA301D), RIIBLA205E Store handle and transport explosives (previously RIIBLA205D), and RIIBLA305E Conduct secondary blasting (previously RIIBLA305D); <b>or</b></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 (or operations relevant to those being conducted as determined by an Inspector of Mines e.g. exploration) of which at least 2 years have been in a supervisory role; <b>and</b></li> <li>• RIIRIS501E Implement and maintain management systems to control risk (previously RIIRIS501D), or an equivalent or superior qualification; <b>and</b></li> </ul>	

No.	Act/Regulation	Position	Required competency	Effective date
			<ul style="list-style-type: none"> <li>• BSBWHS521 Ensure a safe workplace for a work area (previously BSBWHS501), 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; <b>or</b></li> <li>• the 3 competency units—RIIBLA301E Conduct surface shot firing operations (previously RIIBLA301D), RIIBLA205E Store handle and transport explosives (previously RIIBLA205D), and RIIBLA305E Conduct secondary blasting (previously RIIBLA305D); <b>or</b></li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul>	
		<p>Site senior executive, appointed <b>before</b> 1 July 2018, on a surface mine or quarry employing between 6 and 20 persons.</p>	<p>Unless directed otherwise by an inspector:</p> <ul style="list-style-type: none"> <li>• 5 years experience in mining or quarrying (or operations relevant to those being conducted as determined by an Inspector of Mines e.g. exploration) 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); <b>and</b></li> <li>• RIIRIS501E Implement and maintain management systems to control risk (previously RIIRIS501D), or an equivalent or superior qualification; <b>and</b></li> <li>• BSBWHS521 Ensure a safe workplace for a work area (previously BSBWHS501), 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; <b>or</b></li> <li>• the 3 competency units—RIIBLA301E Conduct surface shot firing operations (previously RIIBLA301D), RIIBLA205E Store handle and transport explosives (previously RIIBLA205D), and RIIBLA305E Conduct secondary blasting (previously RIIBLA305D); <b>or</b></li> <li>• a recognised Safe Drilling and Blasting course.</li> </ul>	
2	Act – section 51	Supervisor	<p>RIIRIS301E Apply risk management processes (previously RIIRIS301D, RIIRIS301B, RIIRIS301A QMS1, MNMG325A or MNQGEN300A or MNCG1001A); <b>and</b></p> <p>RIIWHS301E Conduct safety and health investigations (previously RIIWHS301D, RIIOHS301A, QMS2 or MNMG326A or MNQGEN310A or MNCG1008A); <b>and</b></p> <p>RIICOM301E Communicate information (previously RIICOM301D, RIICOM301B, RIICOM301A, QMS3 or MNMG327A or MNQGEN340A or MNCG1009A).</p>	01/01/2003

No.	Act/Regulation	Position	Required competency	Effective date
			<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>	
3	Act – section 53(3)	Underground mine manager (if 20 or more persons work underground)	<p>First Class Mine Manager's Certificate of Competency issued by the Board of Examiners; <b>and</b></p> <p>RIIRIS601E Establish and maintain the risk management system (previously RIIRIS601D, RIIRIS601A, MNMMSM617A or MNQGEN600A) from the national Training Package or its equivalent.*<sup>1</sup></p>	16/03/2001 01/04/2006
4	Act – section 86	Site safety and health representative	<p>RIIRIS301E Apply risk management processes (previously RIIRIS301D, RIIRIS301B, RIIRIS301A, QMS1 or MNMG325A or MNQGEN300A or MNCG1001A); <b>and</b></p> <p>RIIWHS301E Conduct safety and health investigations (previously RIIWHS301D, RIIOHS301A, QMS2, MNMG326A or MNQGEN310A or MNCG1008A); <b>and</b></p> <p>RIICOM301E Communicate information (previously RIICOM301D, RIICOM301B, RIICOM301A, QMS3, MNMG327A or MNQGEN340A or MNCG1009A).</p> <p><i>These competencies to be obtained within three months of appointment.</i></p>	01/04/2002
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)	A person certifying the accuracy of survey plans for a surface mine where there are more than 10 workers.	<ul style="list-style-type: none"> <li>Mine Surveyor Certificate granted under the <i>Mines Regulation Act 1964</i>; <b>or</b></li> <li>RIISDM501D Conduct mine surveying operations (previously RIISDM501A, MNMG100A or MNCG1000A), and 2 years mine surveying experience; <b>or</b></li> <li>a person registered as a surveyor or surveying associate under the <i>Surveyors Act 2003</i>, Queensland; <b>or</b></li> <li>a person registered as a Mining Surveyor by the Board of Surveying and Spatial Information (BOSSI) of NSW; <b>or</b></li> </ul>	01/12/2009



No.	Act/Regulation	Position	Required competency	Effective date
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. BSBWHS419 (previously BSBWHS409) delivered by SIMTARS or competency based training equivalent to BSBWHS419 delivered by Coal Services NSW; <b>and</b></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
12	Act – section 54A(3)(b)	Ventilation officer	<p>RIIUND603D Manage, operate and maintain the mine ventilation system, and RIIUND601E Establish and maintain the ventilation management system (previously RIIUND601D) as delivered by SIMTARS, and successful completion of an assessment examination conducted by SIMTARS; <b>or</b></p> <p>The University of New South Wales Graduate Diploma of Mine Ventilation; <b>or</b></p> <p>Qualifications obtained and recognised under an alternative jurisdiction and accepted by the Chief Inspector (Mineral Mines and Quarries).</p>	18/09/2021

\*<sup>1</sup> 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
10 August 2021	Updated units of competency to current versions
6 April 2020	Agreed update to site senior executive experience requirements
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'.