

Competency Requirements for Queensland Shotfirer Licences

Explosives Act 1999

Applicants for the issue of a shotfirer licence or the renewal of a shotfirer licence must have, within the 5 year period ending on the day the application is made, been assessed by a registered training organisation as having attained the specific competencies in the use of blasting explosives contained in the industry training packages which have been approved by the chief inspector. The specific competencies contained in the industry training packages are detailed below and must be listed on the Statement of Attainment issued by the registered training organisation. The approved registered training organisations are listed in the document "Registered Training Organisations (RTOs) Delivering Shotfirer Training" which is on the web at www.mines.industry.qld.gov.au.

Currently there are 2 different sets of national competencies available that have been approved by the chief inspector as the necessary qualifications for a shotfirer licence.

The first is the recently introduced set of national competencies units under the Resources and Infrastructure Industry Training Package identified as RII09. The category on the shotfirer licence together with restrictions will be based upon the competency units listed against the category as presented in Attachment 1. These competencies are available now and are being accepted now. The Statements of Attainment based upon the competency units in the RII09 package dated after the 29 March 2013 will be the only statements accepted for licensing purposes.

The second is the existing set of competencies which have been in place for many years and are presented in Attachment 2. The category on the shotfirer licence together with conditions and restrictions will be based upon the information presented in Attachment 2. These competencies are being phased out and Statements of Attainment dated up to and including 29 March 2013 listing these competencies will be accepted for shotfirer licensing purposes.

Applicants for the first time issue of a shotfirer licence or those wishing to renew their shotfirer licence are advised to clearly define their requirements for their licensing needs to the registered training organisation undertaking the training. This is especially important for those who are making the transition from the original competency units as presented in Attachment 2 to the RII09 competency units in Attachment 1 to choose the competency units that will give them the required category on the shotfirer licence under the RII09 competency units.

In the interest of completeness, Attachment 1 also lists the competency units expected from the listed activity groups required to meet their duty of care under the RII09 training package.

As a background, on the 21st August 2009 SkillsDMC (the National Industry Skills Council for Drilling, Mining, Quarrying and Civil Infrastructure) endorsed the Resources and Infrastructure Industry Training Package (RII09). The new training package consolidates the Civil Construction Training Packages BCC03 and RII06; the Coal Mining Training Package MNC04; the Extractive Industries Training Package MNQ03; the Drilling Training Package DRT03 and the Metalliferous Mining Training Package MNM05. The main benefit of the consolidation is to improve the portability of skills between related industry sectors.



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Attachment 1

Competency Requirements for Queensland Shotfirer Licences

R1109 Shotfirer Competencies

		Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Non Licensing Outcomes													
		<u>Agricultural</u>	<u>Aboveground</u> <u>Open Cut</u> (metalliferous and coal)	<u>Aboveground</u> <u>Quarrying</u>	<u>Aboveground</u> <u>Construction</u>	<u>Aboveground</u> <u>Seismic</u>	<u>Underground</u> <u>Coal</u>	<u>Underground</u> <u>Metalliferous</u>	<u>Underground</u> <u>Construction</u> <u>and Tunnelling</u>	Blast Designer	Blasting Supervisor/ Contractor	MMU Operators	Magazine Keepers (excl. Underground Coal)	Explosives Transport Drivers on mine sites	Assistant Shotfirer (excl. Underground Coal)	Assistant Shotfirer - Underground Coal							
Competency Unit	Training Package																						
RTD3709A Handle and store explosives	RTD02	X																					
RTD3710A Identify and select explosive products	RTD02	X																					
RTD3711A Prepare and use explosives	RTD02	X																					
RIIBLA301A Conduct surface shotfiring operations	R1109		X	X	X	X																	
RIIBLA202A Support underground shotfiring operations	R1109															X							
RIIBLA204A Store, handle and transport explosives in underground coal mines	R1109						X									X							
RIIBLA205A Store, handle and transport explosives	R1109		X	X	X	X		X	X				X	X	X								
RIIBLA302A Conduct shotfiring operations in underground coal mines	R1109						X																
RIIBLA303A Conduct underground development shotfiring	R1109							X	X														
RIIBLA304A Conduct underground production shotfiring	R1109							X															
RIIBLA305A Conduct secondary blasting	R1109		X	X	X	X	X	X	X														
RIIBLA201A Support shotfiring operations	R1109														X								
RIIBLA401A Manage blasting operations	R1109										X												
RIIBLA402A Monitor and control the effects of blasting on the environment (<i>see note 1</i>)	R1109			X		X			X	X	X												
RIIBLA601A Design surface blasts	R1109									X													
RIIBLA602A Establish and maintain a blasting system	R1109										X												
RIIBLA203A Conduct mobile mixing of explosives	R1109											X											
RIIRIS402A Carry out the risk management processes or equivalent	R1109									X	X												
		Restricted to outside a built up area ²	Restricted to outside a built up area ²		Restricted to outside a built up area ²		Restricted to outside a built up area ²	Restricted to outside a built up area ²	Restricted to outside a built up area ²	Note: The items in the <i>non licensing outcomes</i> section provide competencies that underpin blasting operations.													

¹The restriction to outside a built up area will not be applied to licences when the competency RIIBLA402A Monitor and Control the effects of blasting on the environment has been attained.

²Outside a built up area = Council zoned rural land, land size greater than 30 ha and/or greater than 500m from vulnerable facilities*, protected works class A* and/or B* (*AS2187.0).

Note: Trainers and trainees must ensure that the course enrolled in and the set of units of competency being studied, adequately cover the licence category being applied for or renewed.

How to use table/s: RII09 Competencies: The applicant must obtain each competency indicated by an 'X' in one of the columns relevant to the licence Class applied for.
For example: an applicant who seeks a licence for Class B - Above Ground Open Cut (Metalliferous and Coal) must have attained the relevant competencies below.

Refer Attachment 1

		Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Non Licensing Outcomes					
		Agricultural	Above ground Open Cut (metalliferous and coal)	Above ground Quarrying	Above ground Construction	Above ground Seismic	Underground Coal	Underground Metalliferous	Underground Construction and Tunnelling	Blast Designer	Blasting Supervisor/ Contractor	MMU Operators	Magazine Keepers	Explosives Transport Drivers on mine sites	Assistant Shotfirer
Competency Unit	Training Package														
RIIBLA301A Conduct surface shotfiring operations	RII09		x												
RIIBLA205A Store, handle and transport explosives	RII09		x										x	x	x
RIIBLA305A Conduct secondary blasting	RII09		x												
		Restricted to outside a built up area*	Restricted to outside a built up area*		Restricted to outside a built up area		Restricted to outside a built up area*	Restricted to outside a built up area*	Restricted to outside a built up area*						

MNM, MNQ & MNC competencies: The applicant must obtain each competency indicated by an 'X' in one of the columns marked with a letter A-J for the relevant Category.
For example: An applicant who has completed the competencies as shown in column H (below) meets the requirements for a Category 2 licence with conditions 2 and 5.

Refer Attachment 2

		Category 2								
		Quarrying, Open cut (metalliferous and coal), Construction								
Competency Units	Training Package	A	B	C	F	G	H	I	J	
MNMG 352A - Apply Blasting Activities	MNM 05						x			
MNCO 1040B - Conduct Shotfiring operations	MNC04						x			
Conditions (see over page)							2,5			



Note: Trainers and trainees must ensure that the course enrolled in and the set of units of competency being studied, adequately cover the licence category being applied for or renewed.

Attachment 2

Competency Requirements for Queensland Shotfirer Licences



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MNM, MNQ & MNC Shotfirer Competencies (these competencies can be issued until 29 March 2011)

Competency Units	Training Package	Category 1					Category 2			Category 3	
		Agricultural, Seismic, Small Scale Blasting					Quarrying, Open cut (metalliferous and coal), Construction			Tunnelling and underground mining	
		A	B	C	D	E	F	G	H	I	J
MNMG 352A - Apply Blasting Activities <i>See Note II.</i>	MNM 05	x	x	x	x	x	x	x	x	x	x
RTD 3709A - Handle and Store Explosives	RTD02	x									
RTD 3710A - Identify and Select Explosives	RTD02	x									
RTD 3711A - Prepare and Use explosives	RTD02	x									
MNMG 313A - Charge Blast Holes (UG); (or MNMG 321A & MNMG 323A) <i>See Note III.</i>	MNM 05		x							x	
MNMG 412A - Initiate blasts (UG)	MNM 05		x							x	
MNMG 353A - Fire Surface Blasts	MNM 05			x			x				
MNMG 210A - Store, handle and transport explosives	MNM 05						x			x	
MNMG 311A - Conduct secondary blasting	MNM 05				x						
MNMG 349 - Conduct accretion firing	MNM 05					x					
MNQOPS 313A - Handle and transport explosives (or MNMG 210A) <i>See Note IV.</i>	MNQ03 (or MNM 05)							x			
MNQOPS 413A - Conduct Shotfiring	MNQ03							x			
MNCO 1040B - Conduct Shotfiring operations	MNC04								x		
MNCU 1048A - Conduct Shotfiring (UG)	MNC04										x
Conditions (see over page)		1,5	2,6	2,5	2,3	2,4	2,5	2,5	2,5	2,7	2,8

NOTE – Trainers and trainees must ensure that the course enrolled in and the set of units of competency being studied, adequately cover the licence category being applied for or renewed

Conditions

- 1 - Where experience is limited, add condition "Restricted to outside a built up area".
- 2 - Where experience is limited, add condition "Restricted to outside a built up area - except mining and quarrying".
- 3 - Secondary blasting only - surface only
- 4 - Accretion blasting only - surface only
- 5 - Surface blasting only
- 6 - For small scale blasting - suitable for underground and above ground
- 7 - Excludes underground coal mining
- 8 - Limited to underground coal blasting only.

Notes

- I. The above matrix is a guide and may not be exhaustive. Persons may make application for Shotfirer licences based on other combinations of competency units. Such applications should be referred to Head Office of the Explosives Inspectorate for assessment.
- II. All applicants must have successfully completed this unit MNMG 352A.
- III. May be substituted by MNMG 321A and MNMG 323A from the national Metalliferous Mining package MNM 05.
- IV. May be substituted by MNMG 210A from the national Metalliferous Mining package MNM 05.
- V. These competencies are valid for 5 years from the date of attainment. The Chief Inspector of Explosives requires competencies to be kept current.

Training Package and Competency Units

The training package is listed on the National Training Information Service website (www.ntis.gov.au). For example, under code MNM05, by clicking on the Title "Metalliferous Mining Training Package" the table of contents will contain competency units including the listed required competencies of MNMG352A and MNCO1040B.

Recommendations for further competencies.

- | | |
|---|-----------------------------|
| ▶ Drill and blast supervisors and mine managers should consider gaining competency in MNMG406A - Manage blasting activities | (not listed in table above) |
| ▶ Shotfiring personal who use MMU's should consider gaining competency in MNMG241A - Conduct mobile mixing | (not listed in table above) |
| ▶ Mine and quarry managers should consider gaining competency in MNMG 414A - Monitor and control the effects of blasting on the environment | (not listed in table above) |

NOTE – Trainers and trainees must ensure that the course enrolled in and the set of units of competency being studied, adequately cover the licence category being applied for or renewed.