



Competency Requirements for Queensland Shotfirer Licences *Explosives Act 1999*

Applicants for the issue or renewal of a shotfirer licence must have been assessed by a Registered Training Organisation (RTO) as having attained the specific competencies in the use of blasting explosives contained in the industry training packages 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 RTO. The approved RTOs are listed on the RSHQ website at <https://www.business.qld.gov.au/industries/mining-energy-water/explosives-fireworks/requirements/blasting/shotfirer-licence>.

Currently there are national competencies available that have been approved by the chief inspector as the necessary qualifications for a shotfirer licence. The [Resources and Infrastructure Industry Training Package](#) is identified as RII and [Agriculture, Horticulture and Conservation and Land Management Training Package](#) is identified as AHC. The category on the shotfirer licence together with restrictions will be based upon the competency units listed against the category as presented on Page 2. The Statements of Attainment based upon the competency units in the RII and AHC packages will be the only statements accepted for licensing purposes.

Please note: Release 5.0 of the Resources and Infrastructure Industry Training Package was released on the 23rd September 2020. To allow for the transition of this release, immediately superseded or equivalent units of competency, applicable to the current units listed on page two, will be accepted for licensing purposes until 23rd September 2021.

The competency that is current at the time the Statement of Attainment is issued by the RTO will be accepted for licensing purposes as long as the Statement of Attainment is dated within five years of the date application is made for a shotfirer licence.

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 RTO undertaking the training so the correct licence can be applied for.

Competency Matrix for Queensland Shotfirer Licences

Competency Unit	Training Package	Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Non Licensing Outcomes								
		Agricultural	Aboveground Open Cut (metalliferous and coal)	Aboveground Quarrying	Aboveground Construction	Aboveground Seismic	Underground Coal	Underground Metalliferous	Underground Construction and Tunnelling	Blast Designer	Blast Surveyor	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	Shotfires conducting electronic blasting
AHCEXP301 Handle and store explosives	AHC	X																
AHCEXP302 Identify and select explosive products	AHC	X																
RIIBLA301E Conduct surface shotfiring operations	RII		X	X	X	X												
RIIBLA202F Support underground shotfiring operations	RII																X	
RIIBLA204E Store, handle and transport explosives in underground coal mines	RII						X										X	
RIIBLA205E Store, handle and transport explosives	RII		X	X	X	X		X	X				X	X	X			
RIIBLA302E Conduct shotfiring operations in underground coal mines	RII						X											
RIIBLA303E Conduct underground development shotfiring	RII							X	X									
RIIBLA304E Conduct underground production shotfiring	RII							X										
RIIBLA305E Conduct secondary blasting	RII		X	X	X	X	X	X	X									
RIIBLA307E Conduct Blast Survey	RII										X							
RIIBLA308D Conduct electronic blasting operations	RII																	X
RIIBLA201E Support shotfiring operations	RII															X		
RIIBLA401E Manage blasting operations	RII										X							
RIIBLA402E Monitor and control the effects of blasting on the environment (see note 1)	RII			X		X			X	X	X							
RIIBLA403 Design blasts	RII									X								
RIIBLA602D Establish and maintain a blasting system	RII										X							
RIIBLA203E Conduct mobile mixing of explosives	RII											X						
RIIRIS402E Carry out the risk management processes or equivalent	RII									X	X							
Restrictions		Note 3	Note 2 Note 4	Note 5	Note 2 Note 4	Note 5	Note 2 Note 4	Note 2	Note 2		Note: The items in the <i>non licensing outcomes</i> section provide competencies that underpin blasting operations.							

Note 1: The restriction to outside a built up area will not be applied to licences when the competency [RIIBLA402E Monitor and control the effects of blasting on the environment](#) has been attained.

Note 2: Restricted to outside 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 3: Restricted to a zoned rural area = Council zones rural areas of land size greater than 50 ha and/or 1000m to protected works class A and/or B.

Note 4: Class B, C, D & E includes Agricultural with restriction in Note 2.

Note 5: Class C & D includes Agricultural without restriction.

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: RII and AHCEXP 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.

Competency Unit	Training Package	Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Non Licensing Outcomes								
		Agricultural	Aboveground Open Cut (metalliferous and coal)	Aboveground Quarrying	Aboveground Construction	Aboveground Seismic	Underground Coal	Underground Metalliferous	Underground Construction and Tunnelling	Blast Designer	Blast Surveyor	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	Shotfires conducting electronic blasting
RIIBLA301E Conduct surface shotfiring operations	RII		X															
RIIBLA205E Store, handle and transport explosives	RII		X										X	X	X			
RIIBLA305E Conduct secondary blasting	RII		X															
Restrictions			Restricted to outside a built up area															

Conditions

1 - Where experience is limited, add condition "Restricted to outside a built up area".

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.
- II. Such applications should be referred to Head Office of the Explosives Inspectorate for assessment.

Training Package and Competency Units

The training package is listed at <https://training.gov.au/Training/Details/RII>

Recommendations for further competencies.

- ▶ Drill and blast supervisors and mine managers should consider gaining competency in RIIBLA401E-Manage blasting operations - Manage blasting operations (see table above)
- ▶ Shotfiring personnel who use MMU's should consider gaining competency in RIIBLA203E - Conduct mobile mixing of explosives (see table above)
- ▶ Mine and quarry managers should consider gaining competency in RIIBLA402E - Monitor and control the effects of blasting on the environment (see table above)
- ▶ Shotfiring personnel conducting electronic firing should consider gaining competency in RIIBLA308E – Conduct electronic blasting operations (see 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.