



**Structures Matrix
Version 4.0 December 2019**

Rail Industry Work Role

Current National Unit Of Competency	
Bachelor Degree (Structures Related)	
TLIF2080B Safely access the rail corridor	X
CPCCOHS1001A Work safely in the construction industry	X
TLI21311 Certificate II Rail Infrastructure	X
TLI32111 Certificate III Rail Structures	X
TLIB2081A Repair timber structures	
TLIB2096A Repair concrete/masonry structures	
TLIB2082A Repair steel structures	X
TLIB3087A Examine timber structures	
TLIB3088A Examine steel structures	
TLIB3098A Examine concrete/masonry structures	
Minimum Experience required (years)	Note 1

Structures Repairer		
Structures Repairer (Steel)	Structures Repairer (Timber)	Structures Repairer (Concrete/Masonry)
X	X	X
X	X	X
X	X	X
X	X	X
	X	
		X
X		
Note 1	Note 1	Note 1

Visual Structures Inspector					
Visual Structures Inspector (Concrete/Masonry) Pathway 1	Visual Structures Inspector (Concrete/Masonry) Pathway 2	Visual Structures Inspector (Timber) Pathway 1	Visual Structures Inspector (Timber) Pathway 2	Visual Structures Inspector (Steel) Pathway 1	Visual Structures Inspector (Steel) Pathway 2
X	X	X	X	X	X
X	X	X	X	X	X
X		X		X	
X		X		X	
		X	X		
				X	X
X	X				
Note 1	7 ^{Note 2}	Note 1	7 ^{Note 2}	Note 1	7 ^{Note 2}

Engineering Structures Inspector		
Engineering Structures Inspector (Concrete/ Masonry)	Engineering Structures Inspector (Timber)	Engineering Structures Inspector (Steel)
X	X	X
X	X	X
X	X	X
	X	
		X
X		
5 ^{Note 3}	5 ^{Note 3}	5 ^{Note 3}

Structures Representative
Structures Representative
To attain this ARTC internal role the applicant must submit records of 7years combined relevant experience for asset management of concrete, masonry, steel and/or timber materials to National Bridges & Structures Engineer for assessment.
7 ^{Note 2}



Older Units of Competency accepted from previous qualification
TLIF2080A Safely access the rail corridor
TLIF2080B Safely access the rail corridor
Other competencies as per HR08-003 ARTC Business Rules Handbook
State based construction industry induction card
TLI21310 Certificate II Rail Infrastructure
TLI21309 Certificate II Rail Infrastructure
TLI32110 Certificate III Rail Structures
TLIB8109A Repair timber structures
TDTB3207B Maintain structures and their components
TLIB9609A Repair concrete/masonry structures
TDTB3201B Maintain structures and their components
TLIB8209A Repair steel structures
TDTB3201B Maintain structures and their components
TLIB8709A Examine timber structures
TDTB3701A Conduct detailed structures examination
TLIB8809A Examine steel structures
TDTB3701A Conduct detailed structures examination
TLIB9809A Examine concrete/masonry structures
TDTB3701A Conduct detailed structures examination

Notes

- Levels of experience covered in TLI21311 and TLI32111.
- Must have at least 7 years combined relevant experience with steel, concrete, masonry and/or timber materials.
- Must have at least 5 years combined relevant experience with steel, concrete, masonry and/or timber materials.

Contractor and Trade Competencies: refer to RIW - National Trades Matrix.