

Engineering and Design Matrix

September 2024

Rail Industry Worker	Electrical Networks					Structures (Civil and Underground)				Tunnels	Track (including Transit Space and all track related Civil infrastructure)	Wheel-Rail Interface & Wheel-Rail Lubrication	Surface Civil (excluding permanent way)	Building Services	Architectural	Rolling Stock				Fire Safety			
	Over Head Wiring & 25kV	Substation & HV Power	EM/EMC	Earthing and Bonding	Traction Power	Buildings Requiring Building Surveyor/Certificates		Excluding Building Act								Mechanical	Electrical	Communications	Security	Lead Designer	Designer	Lead Designer	Designer
						Lead Designer	Designer	Lead Designer	Designer														

Current National Unit Of Competency	CP Engineer	Tertiary Qualification - Masters or Bachelor Degree	Professional Registered Engineer Victoria	Record of Relevant Experience	Endorsed Building Engineer Victoria	Experience	3 years	5 years	10 years	15 years	20 years	Notes
Over Head Wiring & 25kV	X	X	X	X	X				X			
Substation & HV Power	X	X	X	X	X				X			
EM/EMC	X	X	X	X	X				X			
Earthing and Bonding	X	X	X	X	X				X			
Traction Power	X	X	X	X	X				X			
Buildings Requiring Building Surveyor/Certificates	X	X	X	X	X				X			
Excluding Building Act	X	X	X	X	X				X			
Tunnels	X	X	X	X	X				X			
Track (including Transit Space and all track related Civil infrastructure)	X	X	X	X	X				X			
Wheel-Rail Interface & Wheel-Rail Lubrication	X	X	X	X	X				X			
Surface Civil (excluding permanent way)	X	X	X	X	X				X			
Building Services	X	X	X	X	X				X			
Architectural	X	X	X	X	X				X			
Rolling Stock - Mechanical	X	X	X	X	X				X			
Rolling Stock - Electrical	X	X	X	X	X				X			
Rolling Stock - Communications	X	X	X	X	X				X			
Rolling Stock - Security	X	X	X	X	X				X			
Fire Safety - Lead Designer	X	X	X	X	X				X			
Fire Safety - Designer	X	X	X	X	X				X			