OFFICIAL

Engineering and Design Matrix

July 2025

Current National Unit Of Competency

Rail Industry Worker Role	Electrical Networks																			
	Over Head Wiring & 25kV				Substation & HV Power				EMI/EMC				Earthing and Bonding				Traction Power			
	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Professional Registered Engineer Victoria	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Record of Relevant Experience	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Endorsed Building Engineer Victoria																				
Experience																				
3 years																				
5 years	X				X				X				X				X			
10 years		X	X	X		X	X	X		X	X	X		X	X	X		X	X	X
15 years																				
20 years																				

Rail Industry Worker Role	Structures (Civil and Underground)								Tunnels					
	Buildings Requiring Building Surveyor/Certificates						Excluding Building Act							
	Designer	Lead Designer	Checker	Proof Engineer	Independent Reviewer / Verifier	Approver	Proof Engineer	Approver	Designer	Lead Designer	Checker	Proof Engineer	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree	X	X	X	X	X	X	x	x	X	X	X	X	X	X
Professional Registered Engineer Victoria	X	X	X	X	X	X	x	x	X	X	X	X	X	X
Record of Relevant Experience	X	X	X	X	X	X	x	x	X	X	X	X	X	X
Endorsed Building Engineer Victoria				X		X								
Experience														
3 years	X								X					
5 years		X	X							X	X			
10 years					X								X	
15 years				X		X	x	x				X		X
20 years														

Rail Industry Worker Role	Track (including Transit Space and all track related Civil infrastructure)					Wheel-Rail Interface & Wheel-Rail Lubrication					Surface Civil (excluding permanent way)			
	Designer	Lead Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Lead Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree		X	X	X	X		X	X	X	X				
Professional Registered Engineer Victoria	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Record of Relevant Experience	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Endorsed Building Engineer Victoria														
Experience														
3 years	X										X	X	X	X
5 years						X								
10 years		X												
15 years			X	X	X		X							
20 years								X	X	X				

Rail Industry Worker Role	Building Services					Architectural			
	Designer	Lead Designer	Checker	Independent Reviewer / Verifier	Approver	Lead Designer	Checker	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree				X	X	X	X	X	X
Professional Registered Engineer Victoria				X	X				
Record of Relevant Experience				X	X	X	X	X	X
Endorsed Building Engineer Victoria									
Experience									
3 years	X					X			
5 years		X	X				X	X	
10 years				X	X				X
15 years									
20 years									

Rail Industry Worker Role	Rolling Stock															
	Mechanical				Electrical				Communications				Security			
	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver	Designer	Checker	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Professional Registered Engineer Victoria	X	X	X	X	X	X	X	X	X	X	X	X				
Record of Relevant Experience	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Endorsed Building Engineer Victoria																
Experience																
3 years	X				X				X							
5 years		X				X				X			X	X	X	X
10 years			X	X			X	X			X	X				
15 years																
20 years																

Rail Industry Worker Role	Fire Safety				
	Designer	Lead Designer	Checker	Independent Reviewer / Verifier	Approver
Tertiary Qualification - Masters or Bachelor Degree	X	X	X	X	X
Professional Registered Engineer Victoria		X	X	X	X
Record of Relevant Experience	X	X	X	X	X
Endorsed Building Engineer Victoria		X	X	X	X
Experience					
3 years					
5 years	X				
10 years		X	X		
15 years					
20 years				X	X

Notes