

SWMS number: SMS-06-SW-0777	SWMS Name: GI Inspection			SWMS Team: Greg Hess, Richard Wardropper, Anton Loggen, Kevin Wallace, Michael Chapman, Michael Bridger-Darling, Milan Nikolov, Craig Prideaux, David Aquilina, Hemant Jayswal
Custodian (Position): Manager Services and Support RSD	Assumptions: All work is to be performed at an RSD Electrical Maintenance Centre in a safe work environment with adequate lighting, safe access and adequate ventilation. This SWMS does not cover lift shop work			Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Initial assessment by: Peter Gaul (RSD Contract Safety Team Leader) Julian Bedford (Safety & Environment AMG) Bill Martin (SSA)
Approving Authority (Position): GM Safety Support and Services	Plant/Equipment/Tools: <ul style="list-style-type: none"> Red Flag Appropriate trade tools Mobile steps Portable Residual Current Device (RCD) or Earth Leakage Device (ELD) Wheel Chocks Lock and Tag out device 	Records/Reporting: <ul style="list-style-type: none"> On board Train Log Books for Intercity trains Technical Maintenance Plan (TMP) Reports (as required) METRE Fault reports 	Permits/licences required: <ul style="list-style-type: none"> Certificate of competency forklift driver Certificate of competency crane operation Certificate of competency Dogger 	Reviewed Suresh Singh (RSD Safety Manager) Darren Stuart (RSD Safety Officer) Russell Scott (Forman Fitter HMC) Glenn Speechly (Electrician FMC) Michael Richmond (Fitter FMC) Terry O'Toole (Safety Facilitator FMC)
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none"> OHS ACT 2000 OHS Regulations 2001, Chapter 4& 5 Rail Safety Act 2008 ASCC – National Standard for Manual Tasks 2007 National Code of Practice for the prevention of musculoskeletal disorders caused from performing manual tasks AS 3760 In-service inspection and testing of electrical equipment 	Inspection requirements <ul style="list-style-type: none"> Power leads tested 6 monthly Residual Current Device 	Service schedule:	Training/Qualifications required: <ul style="list-style-type: none"> Site specific induction Manual Handling training 	PPE required: <ul style="list-style-type: none"> High Visibility vest or clothing (Orange) Lace up Safety Footwear Safety eyewear Bump hat when working under

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<ul style="list-style-type: none">AS 61010.1 Safety of electrical equipment for measurement control and laboratory use	<ul style="list-style-type: none">(RCD) or Earth Leakage Device (ELD) test before useVisual inspection of leads for damage before useVisual inspection of power and pneumatic tools for damage and operability	MIMS or METRE Ref:	<ul style="list-style-type: none">Rail Industry Safety Induction RISIElectrical Safety AwarenessSafe working certificate of competency E.G. Network RollingStock Maintainer (NRM)Site Road Isolation training as requiredSite Power Testing training as requiredCompetent person for testing electrical equipment	<ul style="list-style-type: none">trainAppropriate protective gloves as requiredHearing protection for power tool useAppropriate respirator/filterFace Shield (as appropriate)Long sleeve shirt or overallsGuards emergency Cock-lock s/c 1966001Locking Jaw s/c 1966019Guards emergency Cock-lock-out Device s/c 165995
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Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
General Hazards These Hazards and Controls apply throughout this SWMS	Struck by or contact with moving trains or unexpected train movement	C4, F3 = B -	<ul style="list-style-type: none"> • Rail Industry Safety Induction RISI • Shunters • Red flag • Traffic management plan • Pre –work brief • Supervision • Site Induction • High Visibility Vest • Trained Drivers • Sounding Horns • Medical Standards and Health Assessments • Site Speed Restrictions 	C4, F1 = C-	Supervisor and authorised employee	SMS-06-SW-0487 Entering Trains from Ballast SMS-06-SW-0488 Climbing out of Trains onto Ballast
	Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage	C3, F3 = C+	<ul style="list-style-type: none"> • Designated Walkways • Use of referenced Entering / Climbing out of Trains SWI's • Lace up Safety Footwear 	C3, F2 = C-		

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		Electric shock	C3, F4 = B-	<ul style="list-style-type: none"> • Training in Electrical Safety Awareness • Train isolation • Warning Signs • Lowered pantograph • Isolated road • Appropriate gloves and PPE • Pre-work brief • Supervision • Residual Current Device (RCD) • Warning Signs • Competent Operator working in accordance with Isolation SWIs • Electrical isolation and testing practices/procedures • Isolate and tag out circuit breakers as necessary 	C3, F2 = C-	Supervisor and authorised employee	
		Needle Stick Injuries	C3, F3 = C+	<ul style="list-style-type: none"> • Protective Gloves • Handling Sharps SWI • Pre-work brief • Appropriate protective clothing 	C2, F2 = D		SMS-06-SW-0405 – Handling Sharps
		Contact with sharp edges	C3, F3 = C+	<ul style="list-style-type: none"> • Protective Gloves • Lace up Safety Footwear • Appropriate clothing 	C2, F2 = D		SMS-06-GD-0323 Personal Protective Equipment

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
		Fall from doorway / mobile stairs	C2, F4 = C+	<ul style="list-style-type: none"> • Use appropriate mobile stairs and platform to access carriage • Competent Operator working in accordance with referenced SWI • Level and even ground for platform • Non Slip shoes • Use hand rails • Use fall arrest equipment 	C2, F3 = C-		
		Sprains and strains	C2, F4 = C+	<ul style="list-style-type: none"> • Entry and Exit using the platform, wherever possible • Entry and Exit using referenced SWIs when platform not available • Use of ladder (non-conductive), as required • Safety footwear • Portable lighting, as required • Use a firm grip, keep back straight, bend knees and avoid twisting, bending or overreaching • Use manual handling aids such as trolleys • Use team lift • Work in accordance with Manual Handling Training • Pre-work assessment and briefing • Portable stairs in maintenance centres • Protection plan • Speed restrictions 	C2, F3 = C-	SMS-06-GD-0001 Guide to Manual Handling	

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
1. Electric Tools	<u>Tools & Equipment Hazards</u> These Hazards and Controls apply to the use of tools and equipment	Electric shock from power leads	C3, F4 = B-	<ul style="list-style-type: none"> • Pre-work brief • Supervision • Testing and Tagging • Pre-use inspection • Residual Current Device (RCD) and testing Earth Leakage Device (ELD) • Annual certification • Appropriate PPE • Training in electrical safety • Warning signs awareness 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-0274 Electrical Equipment – Selection, Inspection and Testing
		Noise	C2, F4 = C+	<ul style="list-style-type: none"> • Hearing protection • Pre-work brief • Supervision • Work in accordance with relevant tool SWIs • Refer to tool and equipment hazards 	C2, F2 = D	Supervisor and authorised employee	SMS-06-GD-0273 Noise Management SMS-06-GD-0323 Personal Protective Equipment
		Dust	C2, F4 = C-	<ul style="list-style-type: none"> • Appropriate eyewear and PPE • Appropriate Respirator/filter • Training in use of PPE • Supervision • Pre-work brief • Practice hygiene 	C2, F2 = D		

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		"Kick Back" – Sudden movement of tool	C3, F4 = C+	<ul style="list-style-type: none"> • Competent Operator working in accordance with referenced SWI • Pre-work assessment and briefing • Pre-use inspection • Keep clear of path of moving tool • Check that guard returns correctly • Workable guard and continuous inspection • Supervision 	C2, F2 = D		SMS-06-SW-0474 Angle Grinders SMS-06-SW-0475 Bench Grinders SMS-06-SW-0479 Power Drills SMS-06-SW-0483 Power Saws SMS-06-SW-0478 Pedestal Drills
		Projectiles	C3, F3 = C+	<ul style="list-style-type: none"> • Safety Eyewear (including face shield, as appropriate) • Pre-use checks, as per relevant SWI (see "kick back") • Competent Operator working in accordance with relevant SWI (see "kick back") • Supervision • Pre-work Brief 	C2, F2 = D		
		Cuts and abrasions from contact with moving tool	C2, F2 = C-	<ul style="list-style-type: none"> • Competent Operator working in accordance with relevant SWI (see "kick back") • Pre-work brief • Supervision 	C2, F2 = D		
		Sparks and Hot metal generated by tool use	C2, F3 = C-	<ul style="list-style-type: none"> • Competent Operator working in accordance with relevant SWI (see "kick back") • Long sleeved shirts or overalls • Additional controls as dictated by outcome of Hot Work risk assessment 	C2, F1 = D		SMS-06-PR-0329 Hot Work

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				<ul style="list-style-type: none"> • Appropriate protective Gloves • Appropriate eye protection • Use correct cutting wheels (soft wheels for hard metal, hard wheels for soft metal) • Remove flammable materials within the vicinity of the work being undertaken • Pre-work brief • Supervision • Extinguishers readily available 			
2. Pneumatic Tools		Pneumatic discharge	C2, F3 = C-	<ul style="list-style-type: none"> • Pre-use checks, as per referenced SWI • Eye Protection • Appropriate PPE • Competent Operator working in accordance with referenced SWI 	C2, F2 = C-	Supervisor and authorised employee	SMS-06-SW-0809 Pneumatic Tools
		Struck by pneumatic hose	C3, F3 = C+	<ul style="list-style-type: none"> • Pre-use checks, as per referenced SWI • Appropriate clothing/gloves • Eye protection • Competent Operator working in accordance with referenced SWI • Isolation and release of air pressure before removing hoses 	C2, F2 = D		SMS-06-SW-0839 Compressed Air - Safe Use
		Noise		<ul style="list-style-type: none"> • See above "General Hazards" 			SMS-06-GD-0273 Noise Management
		Dust		<ul style="list-style-type: none"> • See above "General Hazards" 			
		Cuts and abrasions from contact with moving tool		<ul style="list-style-type: none"> • See above Tools & Equipment Hazards – Electric Tools 			SMS-06-SW-0809 Pneumatic Tools

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1	Secure a Red Flag on the Driver's window blind of the lead car	Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
 Note <i>The following operational checks are done before the road is isolated</i>							
2	Perform operational check on Braking systems in accordance with TMP	Dust		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1164 Train Brake System (05) Safe Working
		Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 			
3	Perform operational check on Pneumatic systems in accordance with TMP	Dust		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working
		Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 			
4	Perform operational check on Climate Control systems in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1244 Train Climate Control (HVAC) System (08) Safe Working
5	Perform operational check on Auxiliary Power supply systems in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1250 Train Auxiliary Power Supply (10) - Safe Working

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6.	Perform Electrical Tests	Electric Shock Arcing	C4, F4 = B+	<ul style="list-style-type: none"> • Competent operator working in accordance with the relevant SWI for the system being tested • Electrical Safety Awareness training • Electrical Test equipment compliant with AS 61010.1 • All PPE to comply with SMS-06-SW-0538 PPE for Electrical Work • Pre-work brief • Supervision • Warning signs • Residual Current Device RCD and Earth leakage device ELD 	C2, F2 = D	Supervisor and authorised employee	AS 61010.1 Safety of electrical equipment for measurement SMS-06-GD-0268 Working Around Electrical Equipment SMS-06-SW-0538 PPE for Electrical Work

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7	Lower Pantograph	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-0838 Pantograph Raising and Lowering
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 			
8	Isolate road	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 			
		Arcing from Road Isolation Switch during its movement	C2, F3 = C-	<ul style="list-style-type: none"> Design of Electrical Infrastructure Working in accordance with referenced SWI Electrical Safety Awareness training AR or BR training 	C2, F2 = D		SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
		Electric shock during operation of the Road Isolation Switch	C2, F3 = C-	<ul style="list-style-type: none"> Design of Electrical Infrastructure Standing on Earthing Plate AR or BR training Electrical Safety awareness training Working in accordance with referenced SWI Pre-work Brief 	C2, F2 = D		

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 Note The following inspections are done after the road electrical isolation has been undertaken and confirmed							
9	Perform Electrical Repairs and Replacements	Electric Shock Arching		<ul style="list-style-type: none"> See step 6 – perform electrical tests 		Supervisor and authorised employee	SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key SMS-06-SW-0838 Pantograph Raising and Lowering
10	Inspect Body components in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above “General Hazards” 		Supervisor and authorised employee	SMS-06-GD-0001 Guide to Manual Handling
		Needle Stick Injuries		<ul style="list-style-type: none"> See above “General Hazards” 			
11	Repair/Replace Body components	Contact with sharp edges		<ul style="list-style-type: none"> See above “General Hazards” 			SMS-06-SW-1284 – Train Body System (01): Safe Working
		Various hazards associated with the use of paints and associated chemicals, such as: <ul style="list-style-type: none">PoisoningChemical burns to the eyes & skinChronic illnesses	C3, F3 = C+	<ul style="list-style-type: none"> Additional PPE as required by site risk assessments Appropriate respirator and filter Long sleeved shirt Chemical resistant gloves Chemical resistant boots Use disposable overalls and disposable booties when removing lead based paints Use mechanical ventilation aids where needed 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-1158 Working with Paints and Associated Chemicals
		Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> See above “Tools & Equipment Hazards” 		Supervisor and authorised employee	
		Needle Stick Injuries		<ul style="list-style-type: none"> See above “General Hazards” 			

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		Biological Hazards of interacting with bodily fluids (particularly in relation to the toilets)	C3, F3 = C+	<ul style="list-style-type: none"> • Wear Protective Gloves/PPE • Wear Safety Goggles • Lighting • Personal hygiene • Additional portable lighting, as required • Drivers' Incident reporting • Inspections before work commences • Contract Forensic Cleaning, as required • Work in accordance with SWI 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-1257 Train Water System (15) Safe Working
		Electric shock from power sources within carriage	C3, F4 = B-	<ul style="list-style-type: none"> • Training in Electrical Safety Awareness • Pre-work brief • Supervision • Warning Signs • Competent Operator working in accordance with Isolation SWIs • Electrical Isolation and testing practices/procedures • Residual Current Device (RCD) • Isolate and tag out circuit breakers 	C2, F2 = D		SMS-06-SW-1284 – Train Body System (01): Safe Working

12	Inspect Inter-car connectors in accordance with TMP	Restricted Working Space	C3, F3 = C+	<ul style="list-style-type: none"> Repair/Replace Inter-car connectors 	C2, F2 = D	Supervisor and authorised employee	SMS-06-GD-0001 Guide to Manual Handling
		Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
		Electric shock from power sources within carriage		<ul style="list-style-type: none"> See above "Repair/Replace Body Components" hazards 			SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
	Repair/Replace Inter-car connectors	Restricted Working Space		<ul style="list-style-type: none"> See above- Repair/Replace Inter-car connectors 			SMS-06-SW-1249 Intercar Connectors System (03) Safe Working

	<p>Struck by or contact with moving trains or unexpected train movement</p>		<ul style="list-style-type: none">• See above "General Hazards"			<p>SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres</p> <p>SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key</p>
	<p>Various hazards associated with use of tools and equipment</p>		<ul style="list-style-type: none">• See above "Tools & Equipment Hazards"			

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13	Inspect Door systems in accordance with TMP	Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1165 Train Door Systems (04) Safe Working SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			
14	Repair/Replace Door system components	Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1165 Train Door Systems (04) Safe Working SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			
		Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 			
		Electric shock from power sources within carriage		<ul style="list-style-type: none"> See above "Repair/Replace Body Components" hazards 			
15	Inspect Climate Control systems in accordance with TMP	Sprains and strains from awkward postures		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
16	Repair Climate Control System components Climate Control System unit. Replacements to be carried out in the lift shop	Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			
		Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			

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		Burns from refrigerants	C2, F3 = C-	<ul style="list-style-type: none"> • Wear protective gloves • Wear Safety Goggles • Competent Operator working in accordance with referenced SWI 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-0779 Lift Shop Repairs SMS-06-GD-0323 Personal Protective Equipment

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		Insect Bites	C2, F3 = C-	<ul style="list-style-type: none"> • Wear protective gloves • Regular pest control • Insect repellent 	C2, F2 = D		SMS-06-SW-1160 Working on High Roads SMS-06-SW-1244 Train Climate Control (HVAC) System (08) Safe Working SMS-06-SW-0838 Pantograph Raising and Lowering SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
		Fall from roof or at Heights	C3, F4 = B-	<ul style="list-style-type: none"> • Use High Roads to perform task • When an A/C unit is removed, place a protective cover over the opening to prevent falls • Use fall arrest equipment • Access via high roads • Guarded edges • Pre -work assessment • Pre - work briefing • Use of train as additional fall protection, in accordance with referenced SWI • Lace up safety footwear • Height safety equipment in use • Use ladders and scaffolding (where practical) 	C2, F2 = D		
		Electric Shock		<ul style="list-style-type: none"> • See above "General Hazards"- Electric Shock 			

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	Inspect Communication systems in accordance with TMP	Contact with sharp objects		• See above "General Hazards"		Supervisor and authorised employee	
		Sprains and strains		• See above "General Hazards"			
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		• See above "General Hazards"			
		Radiation from train radios	C2, F4 = C+	<ul style="list-style-type: none"> • Isolate and work in accordance with the requirements of Train Radio Radiation SWI • Work Rotation • Monitoring • Pre-work brief 	C2, F2 = D		SMS-06-SW-0891 Train Radio Isolation
	Repair/Replace Communications system components	Contact with sharp objects		• See above "General Hazards"			SMS-06-SW-1281 Train Communication System (14): Safe Working
		Sprains and strains		• See above "General Hazards"			SMS-06-SW-0891 Train Radio Isolation
		Radiation from train radios		• See above - Inspect Communication systems in accordance with TMP			
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		• See above "General Hazards"			
		Various hazards associated with use of tools and equipment		• See above "Tools & Equipment Hazards"			
		Electric Shock		• See above "General Hazards"- Electric Shock			

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	Inspect Main Power supply systems in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
	Repair/Replace Main Power Supply system components	Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1286 Train Main Power Supply System (11) Safe Working SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key SMS-06-SW-0838 Pantograph Raising and Lowering
		Electric Shock		<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			

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Inspect Train Brake systems in accordance with TMP	Dust			• See above "General Hazards"		Supervisor and authorised employee	
	Sprains and strains			• See above "General Hazards"			
	Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage			• See above "General Hazards"			
Repair/Replace Train Brake system components	Dust			• See above "General Hazards"			SMS-06-SW-1164 Train Brake System (05) Safe Working
	Sprains and strains			• See above "General Hazards"			SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
	Pinched by moving brakes	C2, F3 = C-		<ul style="list-style-type: none"> • Red Flag on the Driver's window blind, of the lead car • Bogie (BC) or Park Brake (BC) Cock cut out • Guard's Emergency Cock Locked Out • Competent Operator working in accordance with referenced SWI 	C2, F1 = D		SMS-06-SW-1133 Guard's Emergency Cock Lock-Out SMS-06-SW-1153 Brake Work - Train Isolation (Electric Fleet)

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		Struck by or contact with moving trains or unexpected train movement	C2 , F3 = C-	<ul style="list-style-type: none"> See above "General Hazards" 	C2, F1 = D	Supervisor and authorised employee	SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
		Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
		Contact with hot parts		<ul style="list-style-type: none"> Allow cooling time Wear protective gloves when interacting with any hot parts Pre-work brief Work in accordance with relevant SWI 			SMS-06-GD-0323 Personal Protective Equipment

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
	Inspect Pneumatics (other than braking) system in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working
		Electric shock		<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			SMS-06-SW-0838 Pantograph Raising and Lowering
	Repair/Replace Pneumatics (other than braking) components	Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 			SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working
		Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			
		Dust		<ul style="list-style-type: none"> See above "General Hazards" 			
		Contaminated mist (spray)	C2, F3 = C-	<ul style="list-style-type: none"> Appropriate eyewear and PPE Appropriate Respirator/filter Training in use of PPE Supervision Pre-work brief 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-0839 Compressed Air - Safe Use
		Pneumatic discharge	C3, F3 = C+	<ul style="list-style-type: none"> Competent Operator working in accordance with referenced SWI Competent Operator Hearing Protection 	C2, F2 = D		

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
		Electric shock		<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working SMS-06-SW-0838 Pantograph Raising and Lowering SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
		Struck by pneumatic hose	C3, F 3 = C+	<ul style="list-style-type: none"> Pre-use checks, as per referenced SWI Appropriate clothing/gloves Eye protection Competent Operator working in accordance with referenced SWI Isolation and release of air pressure before removing hoses 	C2, F 2 = D		SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working SMS-06-SW-0839 Compressed Air - Safe Use
	Inspect Auxiliary Equipment in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 			
	Repair/Replace Auxiliary Equipment	Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 			SMS-06-SW-1250 Auxiliary Equipment Systems (07) Safe Working
		Contact with sharp objects		<ul style="list-style-type: none"> See above "General Hazards" 			

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)
		Electric Shock		<ul style="list-style-type: none"> See above “General Hazards”- Electric Shock 		Supervisor and authorised employee	
	Inspect Indicators, Control & Monitoring System components in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above “General Hazards” 			
	Repair/Replace Indicators, Control & Monitoring System components	Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above “General Hazards” 			
		Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> See above “Tools & Equipment Hazards” 			SMS-06-SW-1269 Train Indicator, Control & Monitoring systems (13): Safe Working
		Contact with sharp objects		<ul style="list-style-type: none"> See above “General Hazards” 			
		Electric Shock		<ul style="list-style-type: none"> See above “General Hazards”- Electric Shock 			

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
Inspect Traction system components in accordance with TMP	Struck by or contact with moving trains or unexpected train movement			<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1273 Train Traction System (09); Safe Working
	Slip, trip, fall on rail or uneven walking surfaces			<ul style="list-style-type: none"> See above "General Hazards" 			
	Electric Shock			<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			
	Contact with hot parts	C2, F3 = C-		<ul style="list-style-type: none"> Allow cooling time Wear Protective Gloves when interacting with any hot parts Pre-work brief Work in accordance with relevant SWI 	C2, F 1 = D		
Repair/Replace Traction system components	Various hazards associated with use of tools and equipment			<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 			SMS-06-SW-1273 Train Traction System (09); Safe Working
	Electric Shock			<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			
	Contact with hot parts	C2, F3 = C-		<ul style="list-style-type: none"> Allow cooling time Wear Protective Gloves when interacting with any hot parts Pre-work brief Work in accordance with relevant SWI 	C2, F 1 = D		

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)
		Restricted Working Space	C3, F3 = C+	<ul style="list-style-type: none"> • Use referenced SWI's • Bump Hat • Lighting • Ventilation • Appropriate posture • Authorised Entry • Communication • Pre-work assessment and briefing • Supervision 	C2, F2 = D		SMS-06-SW-1273 Train Traction System (09); Safe Working SMS-06-SW-0812 Working in the Pit
		Sprains and strains		<ul style="list-style-type: none"> • See above "General Hazards" 			
	Inspect Auxiliary Power Supply components in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> • See above "General Hazards" 		Supervisor and authorised employee	
		Acid Burns	C3, F 3 = C+	<ul style="list-style-type: none"> • Competent Operator working in accordance with referenced SWI • Safety goggles • Chemical resistant gloves • Safety Footwear 	C2, F2 = D		SMS-06-SW-1285 Train Auxiliary Power Supply (10) - Safe Working SMS-06-GD-0323 Personal Protective Equipment
		Electric Shock		<ul style="list-style-type: none"> • See above "General Hazards"- Electric Shock 			
		Contact with sharp objects		<ul style="list-style-type: none"> • See above "General Hazards" 			
	Repair/replace Auxiliary Power Supply components	Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> • See above "Tools & Equipment Hazards" 			SMS-06-SW-1285 Train Auxiliary Power Supply (10) - Safe Working
		Sprains and strains		<ul style="list-style-type: none"> • See above "General Hazards" 			

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
		Electric Shock	C,F =	• See above "General Hazards"- Electric Shock	C,F =	Supervisor and authorised employee	SMS-06-SW-1285 Train Auxiliary Power Supply (10) - Safe Working SMS-06-GD-0323 Personal Protective Equipment
		Contact with sharp objects		• See above "General Hazards"			
		Acid Burns		• Competent Operator working in accordance with referenced SWI • Safety goggles • Chemical resistant gloves • Safety Footwear			

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
	Inspect Lighting components in accordance with TMP	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
		Electric Shock		<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			SMS-06-SW-1251 Train Lighting Systems (12) - Safe Working
	Repair/replace Lighting components	Electric Shock		<ul style="list-style-type: none"> See above "General Hazards"- Electric Shock 			SMS-06-SW-1251 Train Lighting Systems (12) - Safe Working
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 			
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Mercury vapour / phosphorous particles	C2, F3 = C-	<ul style="list-style-type: none"> Competent Operator working in accordance with referenced SWI Ventilation time Appropriate respiratory/filter Safety Eyewear Exposable overalls and booties 	C2, F2 = D		SMS-06-SW-1251 Train Lighting Systems (12) - Safe Working SMS-06-GD-0323 Personal Protective

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
		Cuts and/or falling debris	C3, F3 = C+	<ul style="list-style-type: none"> • Protective Gloves • Eye protection • Hard hat or bump hat • Lace up safety boots • Keep clear of moving load • Place warning signs 	C2, F2 = D		Equipment

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)	
	Inspect Bogie components in accordance with TMP	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> • See above "General Hazards" 		Supervisor and authorised employee	
		Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> • See above "General Hazards" 			SMS-06-SW-0812 Working in the Pit
	Repair the bogie Replacements to be carried out in the lift shop refer to:	Various hazards associated with use of tools and equipment		<ul style="list-style-type: none"> • See above "Tools & Equipment Hazards" 			SMS-06-SW-1248 Bogie System (02) Safe Working SMS-06-SW-0779 Lift Shop Repairs
		Struck by or contact with moving trains		<ul style="list-style-type: none"> • See above "General Hazards" 			
		Sprains and strains		<ul style="list-style-type: none"> • See above "General Hazards" 			
	Cut Road Back in	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> • See above "General Hazards" 			
		Arcing from Road Isolation Switch during its movement	C2, F 3 = C-	<ul style="list-style-type: none"> • Design of Electrical Infrastructure • AR or BR training • Training in Electrical Safety awareness • Competent operator working in accordance with referenced SWI • Residual current device RCD 	C2, F2 = D		SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)	
		Electric shock during operation of the Road Isolation Switch	C3, F3 = C+	<ul style="list-style-type: none"> • Design of Electrical Infrastructure • Standing on Earthing Plate • AR or BR training • Training in Electrical Safety awareness • Competent operator working in accordance with referenced SWI 	C2, F2 = D	Supervisor and authorised employee	SMS-06-SW-0836 Isolating 1500V DC OH using an Annett Key
	Raise Pantograph	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> • See above "General Hazards" 		Supervisor and authorised employee	
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> • See above "General Hazards" 			
	Perform operational check on door systems	Fall from doorway / mobile stairs		<ul style="list-style-type: none"> • See above "General Hazards" 			SMS-06-SW-1165 Train Door Systems (04) Safe Working
		Electric shock from power sources within carriage (240V)	C3, F4 = B-	<ul style="list-style-type: none"> • Training in Electrical Safety Awareness • Warning Signs • Competent Operator working in accordance with Isolation SWI's • Lowered pantograph • Isolated road • Test isolation has been achieved • Pre-work assessment and brief 	C2, F2 = C+		

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)
	Perform operational check on Braking systems	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1164 Train Brake System (05) Safe Working
		Noise		<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 			SMS-06-GD-0273 Noise Management
		Electric shock from power sources within carriage (415V)	C3, F4 = B-	<ul style="list-style-type: none"> Training in Electrical Safety Awareness Warning Signs Competent Operator working in accordance with Isolation SWI's Lowered pantograph Isolated road Test isolation has been achieved Pre-work assessment and brief 	C2, F2 = C+		SMS-06-SW-0812 Working in the Pit
	Perform operational check on Indicators, Control & Monitoring Systems in accordance with TMP	Electric shock from power sources within carriage		<ul style="list-style-type: none"> See above "Repair/Replace Body Components" hazards 			SMS-06-SW-1269 Train Indicator, Control & Monitoring systems (13): Safe Working
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	
	Perform operational check on Body systems in accordance with TMP	Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 			

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)													
	Perform operational check on Traction systems in accordance with TMP	Slip, trip, fall on rail, or uneven walking surfaces and on entry/exit to carriage		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-SW-1284 – Train Body System (01): Safe Working													
		Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1273 Train Traction System (09); Safe Working													
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 																
	Perform operational check on Auxiliary Power supply systems in accordance with TMP and	Electric shock from power sources within carriage		<ul style="list-style-type: none"> See above "Repair/Replace Body Components" hazards 			SMS-06-SW-1250 Auxiliary Equipment Systems (07) Safe Working													
		Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-06-SW-1250 Auxiliary Equipment Systems (07) Safe Working													
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 																
	Clean-up and return replaced parts and equipment to store and dispose of rubbish in appropriate waste bins	<table border="1"> <tr> <td>Sprains and strains</td> <td></td> <td> <ul style="list-style-type: none"> See above "General Hazards" </td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hygiene and dust</td> <td>C2, F3 = C-</td> <td> <ul style="list-style-type: none"> Appropriate eyewear and PPE Appropriate Respirator/filter Training in use of PPE Supervision Pre-work brief </td> <td>C2, F2 = D</td> <td></td> <td></td> <td></td> </tr> </table>	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 					Hygiene and dust	C2, F3 = C-	<ul style="list-style-type: none"> Appropriate eyewear and PPE Appropriate Respirator/filter Training in use of PPE Supervision Pre-work brief 	C2, F2 = D						Supervisor and authorised employee	
Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 																		
Hygiene and dust	C2, F3 = C-	<ul style="list-style-type: none"> Appropriate eyewear and PPE Appropriate Respirator/filter Training in use of PPE Supervision Pre-work brief 	C2, F2 = D																	

Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)
	Post Inspection Check	Sprains and strains		<ul style="list-style-type: none"> See above "General Hazards" 		Supervisor and authorised employee	SMS-06-GD-0001 Guide to Manual Handling
		Fall from doorway / mobile stairs		<ul style="list-style-type: none"> See above "General Hazards" 			
		Electric shock from power sources within carriage		<ul style="list-style-type: none"> See above "Repair/Replace Body Components" hazards 			
	Remove Red Flag	Struck by or contact with moving trains or unexpected train movement		<ul style="list-style-type: none"> See above "General Hazards" 			SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
		Slip, trip, fall on rail or uneven walking surfaces		<ul style="list-style-type: none"> See above "General Hazards" 			

GI Inspection

Issue date: 04/06/10
Review date: 16/03/13

NOTE: Each work group or team member must sign off on the SWMS to acknowledge they have been briefed about or instructed in the SWMS

RailCorp Level 2 Risk Matrix - Regional & Local (Workplace)		Likelihood/Frequency							Definition for Use - Regional & Local level (Workplace) Used for workplace hazards and safety risks that do not consider the whole of the network. Indicatively this matrix is appropriate for use where the hazards under consideration are up to 10% of the total network exposure. This includes regional and local workplace risk assessments. As an example, the Level 2 scale would be used when examining the risk of slips, trips and falls on specific RailCorp platforms within a region or at a particular station, or the risk of fire within a depot. There are 3 options for descriptors which can be used to determine the frequency category. One set of descriptors is provided for frequency, one for historical likelihood, and one for predictive likelihood in the workplace. Choose the most appropriate. To score the risk, follow the steps: 1. Identify the magnitude of the credible consequence if the risk were to occur. If applicable, risks should be considered in terms of the safety (this matrix), commercial and environmental impact (using other matrices). 2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place) 3. Score the risk using the combination of likelihood and consequence ranking. Note: Where there are a range of credible consequences which may lead to a different level of risk and/or where the controls may be different. It may be useful to score the risk more than once.
		Event Frequency	Less than once every 1000 years	Once every 100 to 1,000 years	Once every 10 to 100 years	Once every 1 to 10 years	More than once per year up to and including 10 times per year	More than 10 times per year	
		Historical (Likelihood)	Unheard of in the rail industry	Has occurred once or twice in the rail industry	Has occurred many times in the rail industry, but not in NSW	Has occurred once or twice in NSW	Has occurred frequently in NSW	Has occurred frequently at specific locations	
		Workplace Predictive (Likelihood)	Not expected to occur	May occur only in exceptional circumstances	Could occur at some time but not likely	You would expect it to occur at least once in the next 10 years performing similar activities	You would expect it to occur at least once this year performing similar activities	You would expect it to occur at least once this month performing similar activities	
			F1	F2	F3	F4	F5	F6	
		Consequence	Incredible	Improbable	Remote	Occasional	Probable	Frequent	
		>10 Fatalities	C6 Disastrous	B-	B+	A	A	A	
		2-10 Fatalities	C5 Catastrophic	C+	B-	B+	A	A	
		1 Fatality (2-10 Major Injuries)	C4 Critical	C-	C+	B-	B+	A	
		1 Major Injury	C3 Major	D	C-	C+	B-	B+	
		1 or more Minor Injuries	C2 Minor	D	D	C-	C+	B-	
		First aid treatment, or illness/injury not requiring treatment	C1 Negligible	D	D	D	C-	C+	
									