

Diesel Fleet Inspections

Issue date: 02/02/10

Review date: 14/10/10

SWMS number: SMS-06-SW-1254	SWMS Name: Diesel Fleet Inspections			SWMS Team: Jay Fleming(E08II Electrical & OHS Rep.), Paul Parkinson(E08II Electrical & OHS Rep.), Lee Morris(E09 Electrical), Steve Attrill(E08 Presentation Tech.), Robert Duffield(E09 Mechanical)
Custodian (Position): Services & Support Manager RSD	Assumptions: All work is to be performed at an Rolling Stock Diesel Maintenance Centre in a controlled work environment with access to referenced controls and carried out by competent RSD staff This SWMS covers Trip, Weekly, Intermediate and Major inspections			
Approving Authority (Position): GM Safety Support Services	Plant/Equipment/Tools: <ul style="list-style-type: none">Red FlagAppropriate trade toolsWheel ChocksLock and lockout device	Records/Reporting: <ul style="list-style-type: none">Relevant checklist(s)	Permits/licences required:	Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Initial assessment by: Peter Gaul (RSD Contract Safety Team Leader) Jim Ryan (RSD Safety Technical Writer) Sam El Rozz (Safety Facilitator) Julian Bedford (Safety & Environment AMG) Reviewed Suresh Singh (RSD Safety Manager) Darren Stuart (RSD Safety Officer) Rhonda Deweske (Safety Facilitator) Geoff Went (Safety Facilitator) Rob Jackson Ernie Petersen
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none">OHS Act 2000 and OHS Regulations 2001, Chapter 4,5Rail Safety Act 2008ASCC – National Standard for Manual Tasks 2007AS 3760 In-service Inspection and Testing of Electrical EquipmentWorkCover Electrical Equipment Risk Assessment May 2006, catalogue No. 4862				

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	<p>for damage before use</p> <ul style="list-style-type: none">• Visual inspection of power and pneumatic tools for damage and operability• Inspect and check all hose fittings are secure and operating correctly	MIMS or METRE Ref:	<ul style="list-style-type: none">• Rail Industry Safety induction (RISI)• Electrical Safety Awareness• Trade qualifications, as required	<ul style="list-style-type: none">• Hearing protection, as required• P1 dust mask, as required• Bump hat, as required• Protective gloves as required
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	<u>General Hazards</u> These Hazards and Controls apply throughout this SWMS	Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> RISI Site Induction High Visibility Vest or Clothing Trained Drivers Sounding Horns Shed Alarms Shunters Traffic Management Plan (including designated pathways) Road Isolation, as applicable Medical Standards and Health Assessments Site Speed Restrictions Red Flag and Pld on Train being worked on Road isolation of Train being worked on 	C +	Supervisor and authorised employee	SMS-06-GD-0333 Worksite Traffic Management SMS-06-GD-0323 Personal Protective Equipment SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water and on entry/exit to carriage	C +	<ul style="list-style-type: none"> Designated Walkways Use of referenced Entering / Climbing out of Trains SWI's Lace-up Safety Boots Housekeeping Workplace Inspections Mobile entry platforms 	C -		SMS-06-SW-0488 Climbing out of Trains onto Ballast SMS-06-SW-0487 Entering Trains from Ballast SMS-16-SR-0057 Inspection and testing

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		Slips, trips and falls resulting from poor lighting	C +	<ul style="list-style-type: none"> Adequate lighting Designated Walkways Lace-up Safety Boots Housekeeping Workplace Inspections Portable lighting, as required Working in accordance with Pit SWI, as applicable 	C -	Supervisor and authorised employee	SMS-16-SR-0057 Inspection and testing SMS-06-SW-0812 Working in the Pit
		Needle Stick Injuries	C +	<ul style="list-style-type: none"> Gloves Lace-up Safety Boots Handling Sharps SWI Sharps containers and Tongs Lighting Additional portable lighting, as required 	C -		SMS-06-SW-0405 Handling Sharps
		Contact with sharp edges	C +	<ul style="list-style-type: none"> Gloves Lace up boots 	C -		SMS-06-GD-0323 Personal Protective Equipment
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> Use a firm grip, keep back straight, bend knees, keep load close to body and avoid twisting, bending or overreaching Use manual handling aids such as trolleys Forklifts or Lifting gear (Overhead crane, pendulum crane, jacks), as required 2 person/team lifts for heavy or awkward items 	C +		SMS-06-SW-1151 Overhead Travelling Crane - Safe Operation SMS-06-GD-0001 Guide to Manual Handling

SWMS Custodian: Manager Services & Support RSD

SWMS Approver: GM Safety Support Services

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		Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none">Assess the risk before accessing difficult placesKeep back straight where possible, bend knees and avoid twisting, bending or overreaching wherever possibleLightingAdditional portable lighting, as requiredKnee pads, as required	C -	Supervisor and authorised employee	SMS-06-GD-0001 Guide to Manual Handling
	Working from the Maintenance Pit	Head Strikes and oil/diesel leaks	C +	<ul style="list-style-type: none">Bump hatLightingAdditional portable lighting, as requiredEye Protection	C -	Supervisor and authorised employee	SMS-06-SW-0812 Working in the Pit SMS-06-GD-0323 Personal Protective Equipment
		Slips, Trips & Falls	C +	<ul style="list-style-type: none">See “General Hazards”Safety clothingEye Protection	C -		SMS-06-SW-0812 Working in the Pit SMS-06-GD-0323 Personal Protective Equipment
		Warning <ul style="list-style-type: none">Ensure a pre work brief is undertaken with all team members involved in the activityEnsure a detailed Workplace Risk assessment is undertaken and documented					

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1.	Electric Tools	Tools & Equipment Hazards These Hazards and Controls apply to the use of tools and equipment					
		Electric shock from power leads	B -	<ul style="list-style-type: none"> Testing and Tagging Pre-use inspection Staff trained in Electrical Safety Awareness Residual Current/earth leakage device (ELD) or otherwise known as Residual Current Device (RCD) Keep Leads off ground and away from water Use battery drills, when possible 	C+	Supervisor and authorised employee	SMS-06-SW-0274 Electrical Equipment Selection Inspection Testing SMS-06-SW-0269 Electric Shock Protocol
		Noise	C +	<ul style="list-style-type: none"> Wear appropriate PPE 	D		SMS-06-GD-0323 Personal Protective Equipment
		Dust	B -	<ul style="list-style-type: none"> Wear appropriate PPE 	C -		
		"Kick Back" – Sudden movement of tool, jamming	C +	<ul style="list-style-type: none"> Competent Operator working in accordance with referenced SWI Ensure guards are in place and working Keep body away from "kick back" path of tool Safety guards have retracted before placing tool on ground or bench (e.g. power saw) 	C -		SMS-06-SW-0474 Angle Grinders SMS-06-SW-0479 Power Drills SMS-06-SW-0483 Power Saws

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		Projectiles	B -	<ul style="list-style-type: none"> Safety Eyewear Face shield, for high speed equipment (i.e. Grinders) Pre-use checks No objects are lodged in guard Competent Operator working in accordance with relevant SWI (see "kick back") 	C -		SMS-06-SW-0474 Angle Grinders SMS-06-SW-0479 Power Drills SMS-06-SW-0483 Power Saws
		Cuts, burns and abrasions from contact with moving tool and burns	C -	<ul style="list-style-type: none"> Competent Operator working in accordance with relevant SWI Keep hands clear of moving parts Ensure guards are in place and working 	D		SMS-06-GD-0323 Personal Protective Equipment
		Sparks and hot metal generated by tool use	D	<ul style="list-style-type: none"> Competent Operator working in accordance with relevant SWI Additional controls as dictated by outcome of Hot Work risk assessment Remove combustibles or flammable chemicals in immediate area Ensure guards are in place and working 	D		SMS-06-PR-0329 Hot work

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	2. Pneumatic Tools	Pneumatic discharge	C -	<ul style="list-style-type: none"> Pre-use checks, as per referenced SWI Avoid compresses air contact with skin Competent Operator working in accordance with referenced SWI 	D	Supervisor and authorised employee	SMS-06-SW-0809 Pneumatic Tools
		Struck by pneumatic hose	C +	<ul style="list-style-type: none"> Pre-use checks, as per referenced SWI All fittings securely connected Competent Operator working in accordance with referenced SWI Isolation and release of air pressure before removing hoses 	D		SMS-06-SW-0809 Pneumatic Tools
		Noise	B -	<ul style="list-style-type: none"> Hearing Protection 	C -		SMS-06-GD-0323 Personal Protective Equipment
		Dust	B +	<ul style="list-style-type: none"> Wear appropriate PPE Safety Eyewear Respirator 	C -		
		Cuts and abrasions from contact with moving tool	B -	<ul style="list-style-type: none"> Competent Operator working in accordance with referenced SWI 	C -		SMS-06-SW-0809 Pneumatic Tools

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	3. Forklift	Struck by forklift	B -	<ul style="list-style-type: none"> Traffic management plan Awareness whilst working around forklifts both drivers and pedestrians Hands and body parts clear of moving parts Trained Operator working in accordance with referenced SWI High Visibility Vest or Clothing Designated Walkways Daily Inspections Reversing Beeper Have an escape route 	C -	Supervisor and authorised employee	SMS-06-SW-0400 Forklift Trucks SMS-06-GD-0323 Personal Protective Equipment SMS-16-FM-0401 Forklift Daily Inspection
		Struck by falling load	C -	<ul style="list-style-type: none"> Trained Operator working in accordance with referenced SWI High Visibility Vest or Clothing Daily inspection Keep clear of moving load 	D		SMS-06-SW-0400 Forklift Trucks SMS-06-GD-0323 Personal Protective Equipment SMS-16-FM-0401 Forklift Daily Inspection

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	4. Overhead Crane	Struck by moving/lowering crane load	C +	<ul style="list-style-type: none"> Trained Operator working in accordance with referenced SWI High Visibility Vest or Clothing Periodic inspections Pre-start inspections Keep clear of suspended or moving load Wear protective helmet whilst operating crane Be vigilant 	C -	Supervisor and authorised employee	SMS-06-SW-1151 Overhead Travelling Crane - Safe Operation SMS-06-GD-0323 Personal Protective Equipment SMS-16-FM-0717 Overhead Travelling Crane Daily Pre-start-Daily Checklist
		Struck by falling load	B -	<ul style="list-style-type: none"> Trained Operator working in accordance with referenced SWI High Visibility Vest or Clothing Periodic Inspections Pre-start inspection Keep clear of suspended or moving load Wear protective helmet whilst operating crane 	C +		SMS-06-SW-1151 Overhead Travelling Crane - Safe Operation SMS-06-GD-0323 Personal Protective Equipment SMS-16-FM-0717 Overhead Travelling Crane Daily Pre-start-Daily Checklist

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1.	Place Red Flag in accordance with referenced SOI	Slip, trip, fall on rail, ballast or other uneven walking surfaces and on entry/exit to carriage	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
2.	Apply local road isolation (e.g. lock boom gate, place Stop boards, position chocks etc)	Slip, trip, fall on rail, ballast or other uneven walking surfaces and on entry/exit to carriage	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +	Supervisor and authorised employee	
3.	Isolate car or set in accordance with referenced SWI	Electric shock	B -	<ul style="list-style-type: none"> Electrician working in accordance with referenced SWI Do not use metal objects around exposed terminals Insulated foot wear and protective clothing Always carry out a test to verify isolation has been achieved See tools and equipment hazards 	C+	Supervisor and authorised employee	SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-GD-0268 Working Around Electrical Equipment SMS-06-EN-0553 Electrical Hazards Warnings SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol

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4.	Commence inspection, in accordance with relevant inspection sheet	See Below	-		-		
5.	Perform inspections on body components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
		Needle Stick Injuries	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water and on entry/exit to carriage	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Head Strikes	C +	<ul style="list-style-type: none"> Bump hats Lighting Additional portable lighting, as required 	C -		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Fall from heights during roof inspection	B -	<ul style="list-style-type: none"> Diesel Maintenance Centres use of guarded high roads in conjunction with harnesses worn by trained users Harness, D rings anchor points etc are in good working condition Inspect and maintain harness 	D		SMS-06-SW-1160 Working on High Roads SMS-06-GD-0240 Working At Heights SMS-06-SW-0527 Belts and harnesses SMS-06-SW-0258 Fall Arrest Systems (Inspection and Maintenance)

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		Electric shock from power sources within carriage	B -	<ul style="list-style-type: none"> Isolations carried out in accordance with system SWI Covered terminals All operators trained in Electrical Safety Awareness Warning signs 	C-		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
		Struck by forklift, during inspection	B -	<ul style="list-style-type: none"> Heightened awareness Keep clear of moving forklift See "Tools & Equipment Hazards" above 	C -		
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Biological Hazards / Blood Borne Pathogens	C+	<ul style="list-style-type: none"> Lighting Wear appropriate PPE Personal hygiene Additional portable lighting, as required Drivers' Incident reporting Inspections before work commences Contract Cleaning, as required Work in Accordance with SWI 	D		SMS-06-SW-0506 Cleaning up Bodily Fluids on Trains SMS-06-SW-0507 Cleaning up Vomit on Trains SMS-06-GD-0323 Personal Protective Equipment
	Repair/Replace Body	As above (inspection of Body)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and	SMS-06-SW-1284

6.

SWMS Custodian: Manager Services & Support RSD

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	components	Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +	authorised employee	<u>Train Body System (01) Safe Working</u>
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		<u>SMS-06-GD-0323 Personal Protective Equipment</u>
		Biological hazards from interaction with toilet / plumbing	B-	<ul style="list-style-type: none"> Lighting Wear appropriate PPE Personal hygiene Additional portable lighting, as required Drivers' Incident reporting Inspections before work commences Contract Cleaning, as required Work in Accordance with SWI 	C+		
		Cuts from broken glass	C-	<ul style="list-style-type: none"> Gloves Glass handling tools (suction cup handles) Safety Eyewear 	D		
7.	Perform inspections on Bogie Components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
		Slip, trip, fall on rail, ballast, uneven walking surfaces oil etc	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Head strike	C +	<ul style="list-style-type: none"> Bump hats Be vigilant Additional portable lighting 	C -		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		

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		Struck by forklift, during inspection	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C -		SMS-06-GD-0323 Personal Protective Equipment
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Biological Hazards / Blood Borne Pathogens	C+	<ul style="list-style-type: none"> Lighting Wear appropriate PPE Personal hygiene Additional portable lighting, as required Drivers' Incident reporting Inspections before work commences Contract Cleaning, as required Work in Accordance with SWI 	D		
		Contact with hot components	C+	<ul style="list-style-type: none"> Protective gloves Safety Clothing Allow cooling period 	C-		
		Hidden Dangerous fauna (e.g. spiders and snakes)	C-	<ul style="list-style-type: none"> Additional portable lighting Be vigilant 	D		
8.	Repair/Replace Bogie components in accordance with referenced SWI	As above (inspection of Bogie)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1248 Bogie System (02) Safe Working
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		

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		Electric shock from cabling	B -	<ul style="list-style-type: none"> Isolations carried out Inspection carried out before work All operators trained in Electrical Safety Awareness Be vigilant 	C-		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
9.	Perform inspections on Inter-car Connector Components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See "General Hazards" Work in a safe place Keep clear of moving train Face moving train Be vigilant 	C +		
		Electric shock from jumpers	B -	<ul style="list-style-type: none"> Isolations carried out in accordance with system SWI Pre-work Inspection Electrical Safety Awareness Warning signs Be vigilant 	C+		
10	Repair/Replace Inter-car Connection Components in accordance with referenced SWI	As above (inspection of Inter-car Connection)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1249 Intercar Connectors System (03) Safe Working
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		

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	Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
	Electric shock from control jumpers	B+	<ul style="list-style-type: none"> Pre-work Inspection Electrical Safety Awareness Warning signs Be vigilant 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
	Dust from pneumatics	C+	<ul style="list-style-type: none"> Isolations Carried out before work in accordance with system SWI Wear appropriate PPE Safety Eyewear 	D		SMS-06-GD-0323 Personal Protective Equipment SMS-06-SW-0809 Pneumatic Tools - Safe Use
	Struck by pneumatic Hose	C+	<ul style="list-style-type: none"> Wear appropriate PPE 	D		
	Body contact with compressed air	C+	<ul style="list-style-type: none"> Wear appropriate PPE 	D		
	Limb entrapment by moving parts	C-	<ul style="list-style-type: none"> Isolations carried out Keep clear of moving parts 	D		
	Noise from pneumatics		<ul style="list-style-type: none"> Hearing Protection, as required 			

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11.	Perform inspections on Door Components	Fall from doorway	B -	<ul style="list-style-type: none"> 3 points of contact Be Vigilant Isolation of door circuit Use of platforms to access carriage 	C +	Supervisor and authorised employee	SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Needle Stick Injuries	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
12.	Repair/Replace Door system components in accordance with referenced SWI	As above (inspection of Doors)	B-	<ul style="list-style-type: none"> See above 	-		SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		SMS-06-SW-1165 Train Door Systems (04) Safe Working
		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	B -	<ul style="list-style-type: none"> Isolation of door circuit Covered terminals Electrical Safety Awareness Warning signs 	C-		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol

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		Dust from pneumatics	C-	<ul style="list-style-type: none"> Isolations of pneumatics carried out, in accordance with SWI Wear appropriate PPE Safety Eyewear, as required 	D		SMS-06-GD-0323 Personal Protective Equipment
		Noise from pneumatics	D	<ul style="list-style-type: none"> Isolations of pneumatics Hearing Protection, as required 	D		
		Caught by moving doors	C	<ul style="list-style-type: none"> Isolations of door Door closing warnings Keep clear of moving doors 	D		
		Caught by moving door components	C	<ul style="list-style-type: none"> Isolations of door Keep clear of moving doors 	D		
13.	Perform inspections on Brake Components	Noise from pneumatics	C-	<ul style="list-style-type: none"> Isolations carried out, in accordance with SWI Keep clear of moving doors 	D	Supervisor and authorised employee	SMS-06-GD-0323 Personal Protective Equipment
		Dust from pneumatics or brakes	C-	<ul style="list-style-type: none"> Isolations carried out, in accordance with SWI Wear appropriate PPE Safety Eyewear, as required 	D		
		Contact with hot components	C-	<ul style="list-style-type: none"> Protective Gloves Safety Clothing 	D		
		Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Strains and sprains from manual handling (removing cover)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		

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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	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)
		Biological Hazards / Blood Borne Pathogens	C-	<ul style="list-style-type: none"> Wear appropriate PPE Personal hygiene Lighting Additional portable lighting, as required Drivers' Incident reporting Inspections before work commences Contract Cleaning, as required Work in Accordance with SWI 	D		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Head strike	C +	<ul style="list-style-type: none"> Bump hats Lighting Additional portable lighting, as required Be Vigilant 	C -		
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Struck by forklift, during inspection	B -	<ul style="list-style-type: none"> Heightened awareness Keep clear of moving forklift See "Tools & Equipment Hazards" above Be Vigilant 	C -		<u>SMS-06-GD-0323</u> <u>Personal Protective Equipment</u>

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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	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)
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See "General Hazards" Work in a safe place Keep clear of moving train Face moving train Be vigilant 	C +		
		Body contact with compressed air	C+	<ul style="list-style-type: none"> Safety Eyewear Wear appropriate clothing Avoid compressed air contact with skin 	D		
		Interaction with hidden Dangerous fauna (eg. spiders and snakes)	C-	<ul style="list-style-type: none"> Lighting Additional portable lighting, as required Be Vigilant 	D		
14.	Repair/Replace Brake system components in accordance with referenced SWI	As above (inspection of Brake Components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	<u>SMS-06-SW-1164 Train Brake System (05) Safe Working</u>
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Strains and sprains from repetitive movements	B -	<ul style="list-style-type: none"> Rest breaks as required Manual handling training 	C+		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Pinched by moving components	B -	<ul style="list-style-type: none"> Keep clear of moving parts Isolations carried out, in accordance with SWI 	C+		

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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	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 from earthing	B -	<ul style="list-style-type: none"> Isolations carried out Inspection carried out before work All operators trained in Electrical Safety Awareness 	C-		<p><u>SMS-06-SW-1130</u> <u>Electrical Isolation Diesel Fleet</u></p> <p><u>SMS-06-SW-0538</u> <u>PPE for Electrical Work</u></p> <p><u>SMS-06-SW-0269</u> <u>Electric Shock Protocol</u></p> <p><u>SMS-06-GD-0323</u> <u>Personal Protective Equipment</u></p>
15.	Perform inspections on Pneumatic Components (other than braking)	Noise from pneumatics	C+	<ul style="list-style-type: none"> Isolations carried out, in accordance with SWI Wear appropriate PPE 	D	Supervisor and authorised employee	<u>SMS-06-GD-0323</u> <u>Personal Protective Equipment</u>
		Dust from pneumatics or brakes	C-	<ul style="list-style-type: none"> Isolations carried out, in accordance with SWI Wear appropriate PPE Safety Eyewear, as required 	D		
		Body contact with compressed air	B-	<ul style="list-style-type: none"> Safety Eyewear Safety signage 	C+		
		Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Strains and sprains from manual handling (lifting skirts)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		

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	Biological Hazards / Blood Borne Pathogens	C -	<ul style="list-style-type: none"> • Wear appropriate PPE • Personal hygiene • Lighting • Additional portable lighting, as required • Drivers' Incident reporting • Inspections before work commences • Contract Cleaning, when waste is noticed by staff, as required • Work in Accordance with SWI 	D		
	Head strike	C +	<ul style="list-style-type: none"> • Bump hats • Lighting • Additional portable lighting, as required 	C -		
	Contact with sharp edges	C +	<ul style="list-style-type: none"> • See above "General Hazards" 	C -		
	Struck by forklift, during inspection	B -	<ul style="list-style-type: none"> • Heightened awareness • Keep clear of moving forklift • See "Tools & Equipment Hazards" above 	C -		
	Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> • See "General Hazards" • Work in a safe place • Keep clear of moving train • Face moving train • Be vigilant 	C +		
	Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water	C +	<ul style="list-style-type: none"> • See above "General Hazards" 	C -		

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		Interaction with hidden Dangerous fauna (eg. spiders and snakes)	C-	<ul style="list-style-type: none"> Lighting PPE as required Protective gloves Additional portable lighting, as required Be vigilant 	D		
		Biological hazards from interaction with toilet / plumbing	C+	<ul style="list-style-type: none"> Wear appropriate PPE Personal hygiene Lighting Additional portable lighting, as required Drivers' Incident reporting Inspections before work commences Contract Cleaning, as required Work in Accordance with SWI 	C-		
16.	Repair/Replace Pneumatic system components (other than braking) in accordance with referenced SWI	As above (inspection of Pneumatic Components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1260 Pneumatics (other than Braking) System (06) - Safe Working SMS-06-GD-0323 Personal Protective Equipment
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Struck by pneumatic Hose	C+	<ul style="list-style-type: none"> Safety Eyewear Safety Face shields 	D		
17.	Perform inspections on Auxiliary Equipment Components	Nil	-		-		
18.	Repair/Replace Auxiliary Equipment system components in accordance with referenced SWI	Fall from heights during work on windscreen wipers	B-	<ul style="list-style-type: none"> Work Platform Be vigilant 	C-	Supervisor and authorised employee	SMS-06-SW-1250 Auxiliary Equipment Systems (07) Safe Working SMS-06-GD-0323 Personal Protective Equipment
		Noise from horn	C-	<ul style="list-style-type: none"> Red flagged train Hearing protection, as required 	D		
		Dust	C-	<ul style="list-style-type: none"> Wear appropriate PPE 	D		

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		Noise from compressed air	C+	<ul style="list-style-type: none"> Hearing Protection 	D		SMS-06-SW-0264 Portable Ladders, Stepladders and Step Platforms
		Body contact with compressed air	C+	<ul style="list-style-type: none"> Safety Eyewear Safety signage Avoid compressed air contact with skin 	D		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Struck by or contact with moving trains	B -	<ul style="list-style-type: none"> See "General Hazards" Work in a safe place Keep clear of moving train Face moving train Be vigilant 	C +		
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Electric shock from power to auxiliary equipment	B -	<ul style="list-style-type: none"> Isolations carried out in accordance with system SWI Inspection carried out before work All operators trained in Electrical Safety Awareness 	C-		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
19.	Perform inspections on Climate Control system components	Dust from filters	C+	<ul style="list-style-type: none"> Wear appropriate PPE 	C-	Supervisor and authorised employee	SMS-06-SW-1130 Electrical Isolation Diesel Fleet
		Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		

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		Head strike	C +	<ul style="list-style-type: none"> Bump hats Lighting Additional portable lighting, as required Be vigilant 	C -		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Interaction with hidden Dangerous fauna (eg. spiders and snakes)	C -	<ul style="list-style-type: none"> Lighting Additional portable lighting, as required Be vigilant 	D		
		Fall from heights	B -	<ul style="list-style-type: none"> Use of high roads in accordance with referenced SWI Training in the fitting of harness 	D		
20.	Repair/Replace Climate Control system components in accordance with referenced SWI	As above (inspection of Pneumatic Components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1160 Working on High Roads
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		SMS-06-GD-0240 Working At Heights
		Strains and sprains from manual handling (lifting skirts)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		SMS-06-SW-0527 Belts and harnesses
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		SMS-06-SW-0258 Fall Arrest Systems (Inspection and Maintenance)
20.	Repair/Replace Climate Control system components in accordance with referenced SWI	As above (inspection of Pneumatic Components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1244 Train Climate Control (HVAC) System (08) Safe Working
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		SMS-06-GD-0323 Personal Protective
		Strains and sprains from manual handling (lifting skirts)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		

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		Burns from refrigerants	D	<ul style="list-style-type: none"> Gloves Protective Goggles Wear appropriate PPE 	D		<u>Equipment</u>
21.	Perform inspections on Traction system components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	<u>SMS-06-GD-0323</u> <u>Personal Protective Equipment</u>
		Contact with hot components	C-	<ul style="list-style-type: none"> Protective gloves Allow cool down period 	D		
		Noise from motors	C-	<ul style="list-style-type: none"> Isolated engine in accordance with system SWI Hearing protection, as required 	D		
		Diesel fumes	C+	<ul style="list-style-type: none"> Natural ventilation Wear appropriate PPE 	D		
		Entrapment by moving parts	B+	<ul style="list-style-type: none"> Isolated engine Keep clear of moving parts 	C-		
		Slip, trip, fall on spilt oil or grease	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
22.	Repair/Replace Traction system components in accordance with referenced SWI	As above (inspection of Traction components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	<u>SMS-06-SW-1273</u> <u>Train Traction System (09) Safe Working</u>
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		

23.	Perform inspections on Auxiliary Power Supply system components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
		Slip, trip, fall on spilt oil or grease	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
		Electric shock	B+	<ul style="list-style-type: none"> All operators trained in Electrical Safety Awareness Warning signs Isolation of battery fuse if work is required Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
24.	Repair/Replace Auxiliary Power Supply system components in accordance with referenced SWI	As above (inspection of Traction components)	-	<ul style="list-style-type: none"> See above 	-		SMS-06-SW-1285 Train Auxiliary Power Supply System (10) Safe Working
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
25.	Perform inspections on Lighting system components	Nil	-		-		

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26.	Repair/Replace Lighting system components in accordance with referenced SWI	Fall from heights during roof work	B -	<ul style="list-style-type: none"> Use of high roads in accordance with referenced SWI Training in the fitting of harness 	D		SMS-06-SW-1160 Working on High Roads SMS-06-GD-0240 Working At Heights SMS-06-SW-0527 Belts and harnesses SMS-06-SW-0258 Fall Arrest Systems (Inspection and Maintenance)
		Diesel fumes	C+	<ul style="list-style-type: none"> Natural ventilation Wear appropriate PPE 	D		SMS-06-SW-1251 Train Lighting Systems (12) - Safe Working
		Slip, trip, fall on rail, ballast, other uneven walking surfaces, or spilt oil, grease, water	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		SMS-06-GD-0323 Personal Protective Equipment
		Electric shock	B+	<ul style="list-style-type: none"> Electrical Isolation in accordance with system SWI All operators trained in Electrical Safety Awareness Warning signs Qualified Electricians undertake rewiring or other major work Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
27.	Perform inspections on Indicators, Control & Monitoring Systems components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	
28.	Repair/Replace Indicators, Control & Monitoring System components in accordance with	As above (inspection of Indicators, Control & Monitoring System components)	-	<ul style="list-style-type: none"> See above 	-		SMS-06-SW-1269 Train Indicators Control

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	referenced SWI	Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		and Monitoring Systems (13) Safe Working
		Radiation from train radio antennae	C+	<ul style="list-style-type: none"> Isolation, in accordance with referenced SWI 	C-		SMS-06-SW-0891 Train Radio Isolation
		Electric shock	B+	<ul style="list-style-type: none"> Electrical Isolation in accordance with system SWI All operators trained in Electrical Safety Awareness Warning signs Qualified Electricians undertake rewiring or other major work Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
29.	Perform inspections on Communication system components	Radiation from train radio antennae	C+	<ul style="list-style-type: none"> Isolation, in accordance with referenced SWI 	C-	Supervisor and authorised employee	SMS-06-SW-0891 Train Radio Isolation
		Electric shock	B-	<ul style="list-style-type: none"> Electrical Isolation in accordance with system SWI All operators trained in Electrical Safety Awareness Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
30.	Repair/Replace Communication system components in accordance with referenced SWI	As above (inspection of Indicators, Control & Monitoring System components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1281 Train Communication System (14) Safe Working
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Radiation from train radio antennae	C+	<ul style="list-style-type: none"> Isolation, in accordance with referenced SWI 	C-		SMS-06-SW-0891 Train Radio Isolation

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		Electric shock	B-	<ul style="list-style-type: none"> Electrical Isolation in accordance with system SWI All operators trained in Electrical Safety Awareness Warning signs Qualified Electricians undertake rewiring or other major work Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
31.	Perform inspections on Water Systems components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -	Supervisor and authorised employee	SMS-06-SW-1257 Train Water System (15) Safe Working
		Biological hazards from interaction with soiled water / plumbing	C+	<ul style="list-style-type: none"> Immunisation Gloves Safety Eyewear 	C-		
32.	Repair/Replace Water Systems components in accordance with referenced SWI	As above (inspection of Water Systems components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
33.	Perform inspections on Catering Equipment system components	Electrical, hot oil and slip hazards	-	<ul style="list-style-type: none"> Electrical Isolation in accordance with relevant SWI Wear appropriate PPE 	-		SMS-06-SW-1252 Catering Equipment System (16) - Safe Working
34.	Repair/Replace Catering Equipment system components in accordance with referenced SWI	Strains and sprains from manual handling (eg. fridges, ovens)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +	Supervisor and authorised employee	SMS-06-GD-0001 Guide to Manual Handling SMS-06-GD-0323 Personal Protective Equipment

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		Electric shock from power leads or electrical appliances	B -	<ul style="list-style-type: none"> Testing and Tagging Inspection before work commences Unplugging appliances before work commences Qualified Electricians carrying out electrical work Warning signs Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0274 Electrical Equipment Selection Inspection Testing SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		SMS-06-GD-0323 Personal Protective Equipment
		Burns or scalds	C+	<ul style="list-style-type: none"> Inspection before work commences Gloves 	C-		
		Contact with sharp edges	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
35.	Perform inspections on Crew & Passenger Amenities system components	Needle Stick Injuries	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		
36.	Repair/Replace Crew & Passenger Amenities system components in accordance with referenced SWI	As above (inspection of Crew & Passenger Amenities system components)	-	<ul style="list-style-type: none"> See above 	-	Supervisor and authorised employee	SMS-06-SW-1256 Crew and Passenger Amenities System (17) Safe Working
		Various hazards associated with use of tools and equipment	-	<ul style="list-style-type: none"> See above "Tools & Equipment Hazards" 	-		
		Strains and sprains from manual handling (eg. tables, beds)	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		

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		Electric shock from electrical (eg crew CD player) or outlets (eg shaver outlet / GPOs)		<ul style="list-style-type: none"> Electrical Isolation in accordance with system SWI Inspection before work commences Warning signs Qualified Electricians carrying out electrical work Wear appropriate PPE 	C+		SMS-06-SW-1130 Electrical Isolation Diesel Fleet SMS-06-SW-0274 Electrical Equipment Selection Inspection Testing SMS-06-SW-0538 PPE for Electrical Work SMS-06-SW-0269 Electric Shock Protocol
37.	Perform inspections on Diesel Engine Systems components	Strains and sprains from accessing difficult locations	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C -		SMS-06-GD-0323 Personal Protective Equipment
		Contact with hot components	C+	<ul style="list-style-type: none"> Gloves 	C-		
		Noise from motors	C+	<ul style="list-style-type: none"> Isolated engine Hearing protection, as required 	D		
		Diesel fumes	C-	<ul style="list-style-type: none"> Natural ventilation Wear appropriate PPE 	D		
		Entrapment by moving parts	C+	<ul style="list-style-type: none"> Assess risk Isolated engine Keep clear of moving parts 	C-		
		Slip, trip, fall on spilt oil or grease	C +	<ul style="list-style-type: none"> See above "General Hazards" 	C –		
		Exposure to Fire Suppression Gasses	B+	<ul style="list-style-type: none"> Isolation of fire suppression system before work commences Wear appropriate PPE 	C+		
38.	Repair/Replace Diesel Engine Systems components in accordance with referenced SWI	As above (inspection of Diesel Engine Systems components)	-	<ul style="list-style-type: none"> See above 	-		SMS-06-SW-1261 Diesel Engine System (18) Safe Working
		Strains and sprains from manual handling	B -	<ul style="list-style-type: none"> See above "General Hazards" 	C +		

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		Various hazards associated with use of tools and equipment	-	• See above "Tools & Equipment Hazards"	-		SMS-06-GD-0323 <u>Personal Protective Equipment</u>
		Contact with sharp edges	C +	• See above "General Hazards"	C -		
		Contact with diesel fuel	C-	• Gloves	D		
39.	Remove any <u>personal</u> isolation on the relevant car(s) or set in accordance with referenced SWI	Electric shock	B -	<ul style="list-style-type: none"> Electrician working in accordance with referenced SWI Wear appropriate PPE 	C+	Owner Only	SMS-06-SW-1130 <u>Electrical Isolation Diesel Fleet</u> SMS-06-SW-0538 <u>PPE for Electrical Work</u> SMS-06-SW-0269 <u>Electric Shock Protocol</u>
40.	Remove Red Flag in accordance with referenced SOI	Nil	-		-	Owner Only	SMS-12-OI-0886 <u>Red Flagging Trains in stabling yards, depots and Maintenance Centres</u>
41.	Notify of completion	Nil	-		-		

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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

Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date	Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date

RailCorp Level 2 Risk Matrix - Regional & Local (Workplace)			Likelihood/Frequency						<u>Definition for Use - Regional & Local level (Workplace)</u> 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 or risks 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
Consequence			F1	F2	F3	F4	F5	F6		
			Incredible	Improbable	Remote	Occasional	Probable	Frequent		
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A		
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A	A		
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A		
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A		
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+		
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-		