Train Technician's Train Repairs

Issue date: 08/09/10
Review date: 07/09/13

SWMS number:
SMS-06-SW-1398

SWMS Name: Train technician's train repairs.

SWMS Team:
Steve Lennon – Train Technician
Nick Haskew - Train Technician
Alan Davis– Train Technician
Malcolm Watling – Train Technician
Phil McColl - Maintenance Operations Manager

Custodian (Position):
Manager Services and Support Rollingstock (RSD)

Assumptions:
All work is to be performed by qualified train technicians in consultation with relevant parties within the bounds of CityRail network.

Approving Authority (Position):
GM RSD

Plant/Equipment/Tools:
- Appropriate trade tools
- Residual current device (RCD) or earth leakage device (ELD) and test before use
- Red flag when train is stationary

Records/Reporting:
- Ellipse - work order scheduling tool

Permits/licences required:

Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group)
Steve Lennon – Train Technician
Nick Haskew - Train Technician
Alan Davis– Train Technician
Malcolm Watling – Train Technician
Rita Krista (OHS Facilitator)
Suresh Singh (RSD Safety Manager)
Phil McColl (Maintenance Operations Manager)

Reviewed by:

Darren Stuart, Safety Project Officer
Neil Hunt, Services and Support Manager
Suresh Singh Safety Manager RSD

Applicable Standards, Codes of Practice and guidance:
- OHS Act 2000
- OHS Regulations 2001
- 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
- Train Operators Manual
- NWT 300 Planning Work on

Inspection requirements
- Visual inspection of powered, hand tools,

Service schedule:

Training/Qualifications required:
- Manual handling training

PPE required:
- High visibility orange vest or clothing

the Rail Corridor • NWT 308 Control Signal Blocking • NWT 310 No Authority Required • NGE 200 Walking in the Danger Zone	leads and equipment for damage and operability before use. • Power tools and leads 6 monthly inspection	**MIMS or METRE Ref:**	• Implement Control signal blocking (CSB) & No Authority Required (NAR)Rail Industry safety induction (RISI) • Train technician trade qualification • Network Rollingstock Maintainer (NRM) • Height safety awareness	• Lace up safety footwear • Appropriate protective gloves (as required) • Locks and lock-out, tag-out devices as required • Sun screen • Safety eye wear • Sun hat as required • Hard hat as required • Hearing protection as required • Full length clothing

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)
1.	General Hazards These Hazards and Controls apply throughout this SWMS	Exposure to electricity	C5,F3 B+	• Qualified Train Technicians • Rail Industry Safety Induction (RISI) • Hazard assessment • No access to incident when overhead power lines are down • Isolated and permit to work issued • Lower Pantographs • Always undertake a visual inspection to verify pantographs have been lowered • Use of Multi Meter device to check electrical current before commencing work • Worksite protection plan • Qualified Protection Officer • Site Induction if required	C3,F2 C-	Train Technician	SMS-06-SW-0269 Electric Shock Protocol SMS-06-SW-0267 Working in accordance with electrical permit SMS-06-SW-0838 Pantograph Raising and Lowering

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)
	General Hazards These Hazards and Controls apply throughout this SWMS Continued General Hazards	Slip, trip, fall on rail, ballast or other uneven walking surfaces and on entry/exit to carriage	C3,F3 C +	• Entry and exit using the platform, wherever possible • Use of ladder (non-conductive), as required • Appropriate safety lace up footwear • Towels for drying off footwear before entry, as required • Lighting • Pre-entry inspection, in accordance with reference SWI • Portable lighting, as required • Appropriate safety Hard hat (construction site) • Communication • Experienced users working in accordance with relevant SWI • Hazard assessment • Potable stairs in maintenance centres • Site Induction if required • Train traction inter locking system	C2,F3 C -	Train Technician	SMS-06-SW-0487 Entering Trains from Ballast SMS-06-SW-0488 Climbing out of Trains onto Ballast

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)
	These Hazards and Controls apply throughout this SWMS Continued	Struck by or contact with moving trains	C4. F3 B -	• Rail Industry Safety Induction (RISI) • Red flag • NWT 308 • NWT 310 • Hazard assessment • Site Induction • High Visibility Vest • Sounding Horns • Medical Standards and Health Assessments • Site speed restrictions • Protection plan briefing • Route knowledge • Trained drivers • Qualified Protection Officer • Points clipping/locking • Use of warning detonators • Standing Train Protection, Control signal blocking (CSB) or No Authority Required (NAR), Network RollingStock Maintainer (NRM) • Site Induction if required	C4, F1 C-	Train Technician	SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres 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)
	General Hazards These Hazards and Controls apply throughout this SWMS Continued	Bites (insect, snake or spider)	C3,F3 C +	• Inspecting area before touching • Insect repellent • Lighting, as required • Full length clothing • Appropriate safety lace up footwear • Appropriate safety protective gloves • First Officer assistance available • Hazard assessment	C2, F3 C -	Train Technician	SMS-06-GD-0323 Personal Protective Equipment
	General Hazards These Hazards and Controls apply throughout this SWMS Continued	Exposure to weather extremes	C3,F3 C+	• Wet weather clothing • Hot & Cold Drinks (water) • Thermal Clothing • Sunscreen, as required • Sun hat, as required • Appropriate safety sunglasses, as required • Work in shaded area • Site Induction if required • Full length clothing	C1,F3 D	Train Technician	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)
	General Hazards These Hazards and Controls apply throughout this SWMS Continued	Needle Stick Injuries	C3,F3 C+	• Inspecting area before touching • Lighting, as required • Full length clothing • Appropriate safety lace up footwear • Appropriate safety gloves • Handling sharps SWI • Sharps tongs and sharps container • Hazard assessment • Site Induction if required	C2,F3 C-	Train Technician	SMS-06-GD-0323 Personal Protective Equipment SMS-06-SW-0405 – Handling Sharps
		Contact with sharp objects	C2,F3 C-	• Appropriate safety gloves • Safety footwear • Visual Inspection • Lighting • Hazard assessment • Site Induction if required	C1,F2 D	Train Technician	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)
		Violence from passengers or public	C3,F3 C+	• Contact Police/Rail Maintenance Centre (RMC) • Conflict resolution training • Pre work briefing • Communication • Site Induction if required • Platform help points • Transit officers on trains • Travelling with crew at night • Emergency alarm button in carriages • Move to another carriage • Don't travel in carriage alone • Liaise with driver and guard	C3, F2 D	Train Technician	SMS-06-GD-0242 Managing Workplace Violence
		Noise	C2, F4 C+	• Appropriate hearing protection • Medical standards & health assessment • Hazard assessment • Work in accordance with relevant SWIs • Site Induction if required	C2, F2 D	Train Technician	SMS-06-GD-0323 Personal Protective Equipment SMS-06-SW-GD-0273 Noise Management

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)
		Sprains and strains	C2, F4 C+	• Carry out team lifts for heavy items. • Manual handling training • Use manual handling aids such as trolleys • Pre-work assessment and briefing • Entry and exit using the platform, wherever possible • Appropriate safety lace up footwear • Portable lighting, as required • Portable stairs in maintenance centres • Protection plan • Site Induction if required • Pre-work stretching	C2, F3 C-	Train Technician	SMS-06-GD-0001 - Manual Handling

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)
2.	Notification of incident information	Information delayed or not communicated leading to injury or illness	C2, F3 C-	• Report incident immediately Communicate with all relevant personnel • Place warning signage • Barricade and restrict access • Supervision	C2,F2 D	Train Technician	
	<u>Tool & Equipment Hazards</u> These Hazards and Controls apply to the use of tools and equipment	Electric shock from power leads and cutting tools	C3, F 4 B-	• Testing and Tagging • Pre-use inspection and remove damaged leads • Residual Current Device (RCD) or Earth Leakage Device (ELD) • Use battery drills, when possible and if applicable • Electric shock protocol • Appropriate safety PPE (Gloves)	C2, F 2 D	Train Technician	<u>SMS-06-SW-0274 Electrical Equipment – Selection, Inspection and Testing</u> <u>SMS-06-SW-0269 Electric Shock Protocol</u>
		Noise		• See Tool & Equipment Hazards "Noise"			<u>SMS-06-GD-0323 Personal Protective Equipment</u>

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)
		"Kick Back" – Sudden movement of tool and projectiles	C3, F 4 C +	• Competent operator working in accordance with referenced SWI • Hazard assessment • Pre-use inspection • Keep clear of path of moving tool • Check that guard returns correctly where applicable • Workable guard and continuous inspection • Safety Eyewear (including face shield, as appropriate) • Appropriate safety gloves where appropriate • Relevant training in the operation of tools and equipment being used • Equipment guard	C2, F 2 D		SMS-06-SW-0474 Angle Grinders SMS-06-GD-0323 Personal Protective Equipment
		Dust		• See "General Hazards"			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)
		Cuts and abrasions from contact with moving tool	C2, F 3 C -	• Competent operator working in accordance with relevant tool SWI • Appropriate safety gloves • Keep clear of cutting tools • Hazard assessment • Keep hands clear • Relevant training in the operation of tools and equipment being used • Equipment guard	C2, F 2 D		SMS-06-SW-0474 Angle Grinders
	Pneumatic Tools	Pneumatic discharge or struck by pneumatic hose	C3,F2 C-	• Pre-use checks, as per referenced SWI • Competent operator working in accordance with referenced SWI • Trade qualified Train Technician • Isolation and release of air pressure before removing hoses • Appropriate safety gloves • Appropriate eye protection • Appropriate clothing • Appropriate safety lace up footwear	C2,F2 D	Train Technician	SMS-06-SW-0809 Pneumatic Tools

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 pneumatic hose	C3,F3 C +	• Pre-use checks, as per referenced SWI • Competent operator working in accordance with referenced SWI • Isolation and release of air pressure before removing hoses	C2,F3) C-		SMS-06-SW-0809 Pneumatic Tools SMS-06-SW-0839 Compressed Air – Safe Use
		Noise		• See "General Hazards"			SMS-06-GD-0273 Noise Management
		Dust		• See "Tool & Equipment Hazards"			SMS-06-GD-0323 Personal Protective Equipment
		Cuts and abrasions from contact with moving tool		• See "Powered Cutting Tools"			SMS-06-SW-0809 Pneumatic Tools

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)
3.	Travel to location, if applicable	Driving vehicle to location while fatigued	C3,F3 C +	• Drug & alcohol management • Fatigue management • Driver's licence • Road rules & enforcement • Vehicle registration • Vehicle maintenance • Take break (long trips) • Use external air vents • Partly wind down window	C3,F2 D	Train Technician	SMS-20-SR-0169 Health Management SMS-06-SW-1109 Driving to remote sites
		Driving vehicle to location at night/in poor weather	C3,F3 C +	• Driver's licence • Drug & alcohol management • Fatigue management • Road rules & enforcement • Vehicle registration • Vehicle maintenance • Reduce speed • Slow down at intersections • Working brake, lights, blinkers and head and tail lights	C2,F2 D		SMS-06-SW-1109 Driving to remote sites

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)
		If travelling by train violence from member of the public during travel		• See "General Hazards"			SMS-06-GD-0242 Managing Workplace Violence
4.	Access Incident Site	Existing hazards or hidden traps,		• See above, "General Hazards"		Train Technician	
		Struck by or contact with moving trains		• See above, "General Hazards"		Train Technician	
5.	Attend train and report to crew, if applicable	Existing hazards or hidden traps,		• See above, "General Hazards"		Train Technician	

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)
6.	Inspect train to identify hazards and carry out repairs on Train	Existing hazards or hidden traps,		• See above, "General Hazards"		Train Technician	
		Fall caused by train movement (inspecting or working whilst travelling)	C2,F3 C -	• Provision of handrails • Lighting, as required • Appropriate safety lace up footwear • Knowledge of train operations	C1,F3 D	Train Technician	
		Contact with sharp objects		• See above, "General Hazards"		Train Technician	SMS-06-GD-0323 Personal Protective Equipment
		Needle Stick Injuries		• See above, "General Hazards"		Train Technician	SMS-06-SW-0405 – Handling Sharps
		Exposure to electricity		• See above, "General Hazards"		Train Technician	SMS-06-sw-0269Electric shock protocol

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)
		Strains and sprains in restricted work space		• 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)
		Struck by or contact with moving trains		• See above, "General Hazards"		Train Technician	SMS-06-GD-0323 Personal Protective Equipment
		Fall from doorway when entering and exiting the train		• See above, "General Hazards"		Train Technician	SMS-06-SW-0487 Entering Trains from Ballast SMS-06-SW-0488 Climbing out of Trains onto Ballast
		Dust		• See "General Hazards"		Train Technician	SMS-06-GD-0323 Personal Protective Equipment
		Pinched by moving brakes	C2,F3 C -	• Bogie (BC) or Park Brake (BC) Cock cut out • Guard's Emergency Cock Locked Out • Working in accordance with referenced SWI	C1,F2 D		SMS-06-SW-1133 Guard's Emergency Cock Lock-Out SMS-12-OI-0886 Red Flagging Trains in stabling yards, depots and Maintenance Centres
		Contact with sharp objects		• See above, "General Hazards"			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)
		Contact with hot parts	C2, F3 C-	• Allow cooling period • Work in accordance with relevant SWI • Appropriate safety gloves when interacting with any hot parts • Working in accordance with referenced SWI • Hazard assessment • Supervision	C2, F1 D		SMS-06-GD-0323 Personal Protective Equipment
		Pneumatic discharge or struck by pneumatic hose		• See "Tools and Equipment hazards"			SMS-06-SW-0809 Pneumatic Tools
		Insect Bites		• See "General Hazards"			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)
		Fall from roof of train or at heights	C3,F2 C-	• Lighting as required • Fall arrest equipment • Working at heights training • Appropriate safety hard hat • Harness Training • Access via high roads where possible • Guarded edges • Pre -work assessment • Hazard assessment • Appropriate safety lace up footwear • Height safety equipment in use • Use ladders and scaffolding (where practical)	C2,F2 D		SMS-06-GD-0240 Working at Heights SMS-06-GD-0241 Fall Arrest Systems
		Acid Burns	C3, F 3 C+	• Chemical resistant safety gloves • Appropriate safety wear eye protection (Safety goggles) • Working in accordance with referenced SWIs • Qualified Train Technician • Appropriate safety lace up footwear	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	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)
7.		Mercury dust (Light Tubes)	C2,F3 C -	• Ventilation • Appropriate respirator • Appropriate protective gloves • Working in accordance with relevant SWIs • Appropriate safety eyewear • Appropriate safety protective clothing	C2,F2 D		SMS-06-GD-0323 Personal Protective Equipment SMS-06-SW-1251 Train Lighting Systems (12) - Safe Working
		Cuts and/or falling debris	C2,F3 C +	• Appropriate safety gloves, as required • Appropriate safety eye protection, as required • Working in accordance with SWIs • Appropriate safety hard hat • Appropriate safety lace up footwear • Hazard assessment	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	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)
		Radiation	C2,F2 D	• Isolate of train radio • Appropriate safety gloves • Appropriate safety protective clothing • Working in accordance with SWI	C2,F1 D		SMS-06-SW-0891 Train Radio Isolation
		Slip, trip, fall on rail, ballast or other uneven walking surfaces and on entry/exit to carriage		• See above, "General Hazards"			SMS-06-SW-0487 Entering Trains from Ballast SMS-06-SW-0488 Climbing out of Trains onto Ballast
8.	Notify completion and state of repair	If repairs are not undertaken correctly or completed, may lead to injury		• Ensure repairs are complete and meet the required standards		Train Technician	
9.	Return to location	Driving vehicle to location while fatigued		• See above, "Travelling to location, if required" Item (3.)		Train Technician	SMS-20-SR-0169 Health Management
		Driving vehicle to location at night / in poor weather		• See above, "Travelling to location, if required" Item (3.)			
		Violence from member of the public during travel		• See above, "Travelling to location, if required" Item (3.)			SMS-06-GD-0242 Managing Workplace Violence

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						
		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	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-

Extreme
High
Medium
Low

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 liklihood 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 matricies).

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.