Risk Assessment - Injuries whilst working inside the sheds and yard areas

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Staff working on maintaining and restoring diesel locomotives carry out a wide range of activities on the railway. This RA assesses the risks of the wide variety of tasks and activities that are undertaken.

Department: Diesel Loco
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Injury to workers whilst working in buildings and yards

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Slips, trips and falls Poor tidiness, disguarded materials, trailing cables, poor lighting, spillages etc.	Volunteers, Staff & Contractors	1) CRITICAL - Engineering: Adequate building lighting with regular checks. - Effective 2) CRITICAL - Engineering: Barrier off work areas as required. - Effective 3) CRITICAL - Engineering: Place buckets under drain lines of locomotives - Effective 4) CRITICAL - Administrative: Use of bins and regular housekeeping. - Effective 5) CRITICAL - Administrative: Store tools and equipment appropriately. - Effective 6) CRITICAL - Administrative: Beware of trailing cables and air lines. Use covers as appropriate. - Effective 7) CRITICAL - Administrative: Clean up all spillages immediately. - Effective 8) CRITICAL - Administrative: Ensure that adequate supplies of 'oil-dry' and other cleaning materials and rags are available. - Effective 9) CRITICAL - Administrative: All staff to undertake full GWSR induction, department induction and complete Learning Centre 'Safety Booklet' quiz. - Effective 10) CRITICAL - Administrative: A spill kit to be made available. - Effective 11) CRITICAL - PPE: Wear safety footwear and overalls. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Introduce a regular housekeeping inspection. - Effective 2) Administrative: Carry out Directors 'Walk-arounds'. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a
Score and Control Measure Notes. Risk is medium due to wide range of work activities undertaken. Risk remains medium.							
Health and Safety	Falls from height Falling from a locomotive, ladder, staging, scaffold or work platform	Volunteers, Staff & Contractors	1) CRITICAL - Engineering: All Working at Height equipment to be inspected, certified and in ticket. - Effective 2) CRITICAL - Engineering: Ensure all handrails and steps are clean of grease and free from trip hazards. - Effective 3) CRITICAL - Engineering: 'Tie-off' ladders or get a second person to 'foot' the ladder. - Effective 4) CRITICAL - Engineering: Do not overload platforms. - Effective 5) CRITICAL - Administrative: All staff to undertake GWSR 'Working at Height' training. - Effective 6) CRITICAL - Administrative: Place any tools or equipment to be used in cabs before climbing into the loco. - Effective 7) CRITICAL - Administrative: Follow the GWSR 'Working at Height' Procedure. - Effective 8) CRITICAL - Administrative: Ensure all floor conditions are, clean, flat and stable before using ladders etc. - Effective 9) CRITICAL - Administrative: Ensure that there are no tripping hazards around work area or on platforms. - Effective 10) CRITICAL - Administrative: Scaffold to only be erected and inspected by those trained and certified to do so. - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Engineering: Consider the installation of a 'Safety Wire' system for when working on vehicle roofs. - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a
Score and Control Measure Notes. Medium risk due to potential injury from a fall. Risk remains medium.							

Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Injuries whilst working inside the sheds and yard areas - Diesel Loco

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Health and Safety	Electrocution Contact with live electrical parts from damaged equipment	Volunteers, Staff & Contractors	1) CRITICAL - Engineering: All portable equipment is be PATS tested. - Effective 2) CRITICAL - Engineering: Fixed Wiring inspections to be carried out on electrical infrastructure. - Effective 3) CRITICAL - Engineering: Use RCD protection on extension leads and power tools. - Effective 4) CRITICAL - Engineering: Disconnect all battery systems before working on them. - Effective 5) CRITICAL - Administrative: Visually inspect all equipment before use. - Effective 6) CRITICAL - Administrative: Remove all jewellery before working on battery systems. - Effective	2 x 5 = 10 Medium - Risk to be minimised and controlled so far as is reasonably practical.	None	2 x 5 = 10 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a
Health and Safety	Hand Arm Vibration (HAVS) Over exposure to vibration from using electrical or pneumatic tools	Volunteers, Staff & Contractors	1) CRITICAL - Administrative: All vibrating tools to be assessed, categorised, and labelled. - Effective 2) Administrative: Staff to be briefed and trained in the use of HAVS tools. - Effective 3) Administrative: Allowed equipment usage periods not to be exceeded. - Effective 4) CRITICAL - PPE: Gloves to be worn. - Effective	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Health and Safety	Damage to hearing from Noise Inadequate personal protection or controls during noisy operations	Volunteers, Staff & Contractors	1) CRITICAL - PPE: Mandatory use of hearing protection when using power tools. - Effective 2) CRITICAL - PPE: Hearing protection to be worn inside locomotive engine rooms when running. - Effective	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1) Administrative: Control access during noisy activity. - Effective 2) Administrative: Carry out noise surveys. - Effective 3) Administrative: Consider carrying out noisy work on days/occasions when there are fewer staff in the area. - Effective 4) Administrative: No shed visitors allowed during noisy activity. - Effective 5) PPE: Others working nearby to wear hearing protection during noisy activities. - Effective	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Ear plugs and ear muffs provided. Risk remains low.							
Health and Safety	Contact with hazardous substances Inadequate/incorrect storage or handling of substances	Volunteers, Staff & Contractors	1) CRITICAL - Engineering: Use of correct containers and storage cupboards for materials. - Effective 2) CRITICAL - Administrative: COSHH Assessments to be available for all materials as required. - Effective 3) CRITICAL - Administrative: COSHH materials not to be brought on site without authorisation. - Effective 4) CRITICAL - Administrative: Waste COSHH materials to be disposed of appropriately. - Effective 5) CRITICAL - PPE: Use of correct PPE for substance. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1) Administrative: Be aware of the possibility of the presence of lead based paints. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Low risk to to irregular use of such materials. Risk remains low.							

Gloucestershire Warwickshire Steam Railway Plc
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Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Eye injury Particles entering the eye from work activities	Volunteers & Staff	1) CRITICAL - Administrative: Ensure eye protection is in good condition. - Effective 2) CRITICAL - Administrative: Staff to only use equipment that they are familiar with and trained in how to use. - Effective 3) CRITICAL - PPE: Wear eye protection when using power and hand tools. - Effective 4) CRITICAL - PPE: Eye wash stations and bottles to be available. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) PPE: Consider using goggles instead of glasses for increased eye protection. - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Risk is medium based on previous occurrences of staff requiring eye wash/flush or hospital visits. Risk reduced by use of goggles.							
Health and Safety	Manual Handling Injury Poor technique, underlying health condition or over exertion.	Volunteers & Staff	1) CRITICAL - Engineering: Use mechanical lifting aids wherever possible. - Effective 2) CRITICAL - Administrative: Be aware of your own capabilities. - Effective 3) CRITICAL - Administrative: Clear walkways before transporting load. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Ask for help with large or cumbersome loads. - Effective 2) Administrative: Undergo manual handling training. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Risk is medium based on previous back injuries. Risk is reduced with training and conformance.							
Health and Safety	Crush or pinch whilst using lifting equipment Crush or pinch points, equipment failure or inattention.	Volunteers & Staff	1) CRITICAL - Engineering: All lifting equipment to be suitably rated, certified and in ticket. - Effective 2) CRITICAL - Administrative: Load weight to be calculated or measured prior to lift beginning. - Effective 3) CRITICAL - Administrative: Staff to be competent in manual handling. - Effective 4) CRITICAL - Administrative: Only those actively involved in the lift to be close to the work activity. - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Consider training more staff in slinging and lifting. - Effective 2) Administrative: Consider using barriers to close off the work area. - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a
Score and Control Measure Notes. Risk is medium due to potential for a crush injury. Risk remains medium							
Health and Safety	Fire Incident during Hot Work	Volunteers & Staff	1) CRITICAL - Administrative: Ensure good housekeeping so that they are no unnecessary flammables or combustibles left in the work area. - Effective 2) CRITICAL - Administrative: 'Fire Watchers' to be present after Hot Work has been completed. - Effective 3) CRITICAL - Administrative: Use water to damp down areas affected by Hot Work. - Effective 4) CRITICAL - Administrative: Department induction covers fire extinguishers, exits, alarms and assembly. - Effective 5) CRITICAL - PPE: Fire fighting equipment such as extinguishers and blankets to be available. - Effective 6) CRITICAL - PPE: Wear fire retardant overalls, safety footwear, gloves and glasses to avoid personal injury. - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	None	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Personal injury whilst using compressed air Struck by particles under pressure, HAVS, Noise etc.	Volunteers & Staff	1) CRITICAL - Engineering: Check all equipment is in good condition before use. - Effective 2) CRITICAL - Engineering: All Pressure Systems to be inspected, certified and in ticket. - Effective 3) CRITICAL - Administrative: Ensure HAVS requirements are not exceeded when using vibrating equipment. - Effective 4) CRITICAL - Administrative: Limit use of 'noisy' equipment when others are present. - Effective 5) CRITICAL - PPE: Wear overalls, safety footwear, eye protection, hearing protection and gloves when using compressed air. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1) Elimination: No visitor access during noisy activity. - Effective 2) PPE: Others present in the work area to wear eye and hearing protection. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Low risk due to type of wok activity and irregular usage. Risk remains low.							
Health and Safety	Fumes Engine fumes, welding, plant/equipment, chemicals	Everyone	1) CRITICAL - Engineering: Shed fitted with vents and opening doors - Effective 2) CRITICAL - PPE: Use appropriate mask - Effective	4 x 1 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1) Engineering: Consider fume extraction for welding - Effective 2) Administrative: Start locos outside where possible - Effective	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Score and Control Measure Notes. Strong probability due to occasional starting of locos in shed. Risk reduced due to starting locos outside.							

Working around moving plant, forklifts

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Contact with moving vehicles around the loco dept site including buildings Regular use of telehandler, forklift trucks etc.	Volunteers, Staff & Contractors	1) CRITICAL - Engineering: Use barriers where possible to prevent access - Improvable 2) CRITICAL - Engineering: Ensure lighting is sufficient and routes are clear when using vehicles - Improvable 3) CRITICAL - Administrative: Inform occupants of the work area that movement is taking place. - Improvable 4) CRITICAL - Administrative: Briefed during volunteer induction - Improvable 5) CRITICAL - Administrative: Only trained and competent people may drive company vehicles - Effective	2 x 5 = 10 Medium - Risk to be minimised and controlled so far as is reasonably practical.	None	n n n	n/a

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.

Ends