



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Removing, Repairing and Testing of Carriage Toilet Water Tanks - Carriage and Wagon**

**Risk Assessment - Removing, Repairing and Testing  
of Carriage Toilet Water Tanks**

Reference No: CAR-44797-87

Version No: 2

Assessment Approver: Kevin 'Kev' Jarvis

Department: Carriage and Wagon  
Date Of Assessment: 24 August 2022  
Review Due Before: 04 November 2026  
Lead Assessor: Roger Exton  
Team:

**Draining down and removal of water tank**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Harm caused by use of tools Improper use of tools	Volunteers & Staff	1) CRITICAL - Elimination: Only use tools for the purpose for which they were designed - Effective 2) CRITICAL - Administrative: Follow RA for safe use of tools in C&W - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	None	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	n/a
Health and Safety	Sharp edges and points Pipework ends	Volunteers & Staff	1) CRITICAL - Engineering: Use tools as designed - Effective 2) CRITICAL - Administrative: Follow RA for safe use of tools in C&W - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	None	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	n/a
Health and Safety	Hand and other personal injuries Contact with tools and sharp edges	Volunteers & Staff	1) CRITICAL - Engineering: Be competent at working with pipework - Effective 2) CRITICAL - Engineering: Correct use and training in the use of tools - Effective 3) CRITICAL - Administrative: Follow the hand tool RA - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	None	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	n/a
Health and Safety	Manual handling Injuries Poor manual handling	Volunteers & Staff	1) CRITICAL - Engineering: Be aware of own limitations - Effective 2) CRITICAL - Engineering: Only carry what is easily transported - Effective 3) CRITICAL - Administrative: See RA manual handling in carriage and wagon - Effective 4) CRITICAL - PPE: Use correct PPE - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 =	4	1) Administrative: Undertake manual handling training - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 =	4	n/a



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Health and Safety	Slips, trips and falls Wet floor	Volunteers & Staff	1) CRITICAL - Engineering: Keep area tidy, use good housekeeping techniques - Effective 2) CRITICAL - Engineering: Ensure all hoses and water containers are positioned so as not to cause a trip hazard - Effective 3) CRITICAL - Administrative: Follow RA for slips, trips and falls in C and W workshops and sidings - Effective	2 x	1 =	2	None	2 x	1 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Water leaking whilst draining a water tank Drain hose becomes detached	Volunteers & Staff	1) Engineering: Consider draining any water outside - Effective 2) CRITICAL - Engineering: Ensure all hoses and containers are adequate for the amount and pressure of water likely to be found - Effective 3) Engineering: Be aware the main water tank in the roof may also need draining - Effective	2 x	1 =	2	None	2 x	1 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Injury caused by using solder and flux during repairs Burns and or damage caused by a naked flame and/or fume inhalation	Volunteers & Staff	1) CRITICAL - Administrative: Check the COSHH register re flux - Effective 2) CRITICAL - Administrative: See RA re use of gas torches - Effective	2 x	1 =	2	None	2 x	1 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Injury or damage caused by using solder and flux during repairs Improper use of or failure of equipment	Volunteers & Staff	1) CRITICAL - Engineering: Have a fire extinguisher to hand - Effective 2) CRITICAL - Engineering: Always work in a well-ventilated area - Effective	2 x	1 =	2	None	2 x	1 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Water leaks during testing Faulty water tank and/or pipework	Volunteers & Staff	1) CRITICAL - Engineering: Testing should be carried out in a suitable area with the means to control any water leakage - Effective	2 x	1 =	2	None	2 x	1 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			



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Health and Safety	Illness, risk of legionella Contact with contaminated water	Volunteers & Staff	1) CRITICAL - Administrative: Check RA legionella (Toilets and Taps) - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 =	8	None	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 =	8	n/a
Health and Safety	Exposure to asbestos Carriages may still contain asbestos near or around tanks as insulation	Volunteers & Staff	1) CRITICAL - Engineering: If any asbestos is found or suspected, stop work and seek advice - Effective 2) CRITICAL - Engineering: Barrier off area - Effective 3) CRITICAL - Administrative: Check the asbestos register before starting work - Effective 4) CRITICAL - Administrative: Be aware of signage for existing asbestos - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	5 =	10	1) Administrative: Undertake asbestos awareness training - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	5 =	10	n/a
Health and Safety	Injury from old and new pipework Sharp edges on exposed pipework	Volunteers & Staff	1) CRITICAL - Engineering: New pipework should be clamped or clipped to support and prevent movement - Effective 2) CRITICAL - Engineering: Sharp ends should be filed to remove any sharp edges - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	None	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 =	2	n/a

**COSHH Assessments**

There are no COSHH assessments associated with this risk assessment.  
Ends