



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Safe Use of Compressed Air Tools - Carriage and Wagon**

**Risk Assessment - Safe Use of Compressed Air Tools**

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Assessment Approver: Kevin 'Kev' Jarvis

Department: Carriage and Wagon

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Lead Assessor: A. Killey

Team: I. Stroud

**Using a Sander**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Inhalation of Harmful Dusts Dust is inevitably released during the coarse of sanding	Volunteers & Staff	1) CRITICAL - PPE: Always Wear a Face Mask - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider Training in the Safe Use of Air Tools - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Hand Arm Vibration (HAV) Excessive Amount of Time Using a Compressed Air Sander	Volunteers & Staff	1) CRITICAL - Engineering: Ensure good posture technique. - Effective 2) CRITICAL - Administrative: The risk can be reduced by limiting the use of equipment to the exposure limit EAV value. All equipment are colour tagged. Green 8 hours a day, Amber 2 hours a day and Red 30 mins a day. - Effective 3) CRITICAL - Administrative: Consider staff pre-existing health conditions impacted by HAVS diagnosis. - Effective 4) CRITICAL - PPE: Gloves to be worn - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider HAVs awareness training - Effective 2) Administrative: Consider health surveillance if EAV values are regularly exceeded. - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Hand Injury When attaching or removing tool from pressurised air line.	Volunteers & Staff	1) CRITICAL - Administrative: Air pressure is always removed from the hose using the regulator valve before tools are attached/removed. - Effective 2) CRITICAL - PPE: Gloves to be worn. - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider training in the safe use of air tools - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a

**Using a Grinder**



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Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Injury to Eyes, Hands or Face The Release of Sharp Hot Material Fragments into the Surrounding Air	Volunteers & Staff	1) CRITICAL - Engineering: Erect a barrier if required to protect co-workers. - Effective 2) CRITICAL - Engineering: Ensure guards are always fitted - Effective 3) CRITICAL - Administrative: Care is always taken to ensure that sparks etc do not go towards coworkers - Effective 4) CRITICAL - PPE: Gloves and goggles are always worn - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider training in the safe use of air tools - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Hand Arm Vibration (HAV) Excessive Amount of Time Using a Compressed Air Grinder	Volunteers & Staff	1) CRITICAL - Administrative: The risk can be reduced by limiting the use of equipment to the exposure limit EAV value. All equipment is tagged. Green 8 hours a day, Amber 2 hours a day and Red 30 mins a day. - Effective 2) CRITICAL - PPE: Gloves should be worn. - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider HAVs awareness training - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a

**Using a Needle Gun**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Serious Injury to Eyes, Hands or Face The release of Sharp Hot Material fragments into the Surrounding Air	Volunteers & Staff	1) Engineering: Erect a barrier if required to protect co-workers. - Effective 2) CRITICAL - Administrative: Care is always taken to ensure that material fragments do not go towards any coworkers or towards the face of the user - Effective 3) CRITICAL - PPE: Gloves and goggles to be worn - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider training in the safe use of air tools - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Hand Arm Vibration (HAV) Excessive Amount of Time Using a Compressed Air Needle Gun	Volunteers & Staff	1) CRITICAL - Administrative: The risk can be reduced by limiting the use of equipment to the exposure limit EAV value. All equipment is tagged. Green 8 hours a day, Amber 2 hours a day and Red 30 mins a day. - Effective 2) CRITICAL - PPE: Gloves to be worn - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	3 = 6	1) Administrative: Consider HAVs awareness training - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3 = 3	n/a



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Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Inhalation of Dust and/or Sharp Hot Fragments Needle Guns release sharp hot fragments into the air during use.	Volunteers & Staff	1) CRITICAL - PPE: Face masks are worn where appropriate - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	None	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	n/a

**Using a Rivet Gun**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Eye Injury A rivet breaking and flying into the air	Volunteers & Staff	1) Engineering: Erect a barrier if required to protect co-workers. - Effective 2) CRITICAL - Administrative: A safety inspection system is in place to check these periodically - Effective 3) CRITICAL - Administrative: Guns are never pointed towards people, always in contact with the materials to be joined - Effective 4) CRITICAL - PPE: Gloves and goggles to be worn - Effective	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	6	1) Administrative: Consider training in the safe use of air tools - Effective	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a
Health and Safety	Hand Injury Contact with Loose Material Fragments during riveting	Volunteers & Staff	1) CRITICAL - Administrative: Guns always operated in contact with substrate - Effective 2) CRITICAL - PPE: Gloves to be worn - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	1) Administrative: Consider training in the safe use of air tools - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	n/a

**Using a Blow Gun**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Inhalation of Harmful Dusts When blowing dust etc away from work areas	Volunteers & Staff	1) CRITICAL - PPE: Face masks are always worn - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	1) Administrative: Consider training in the safe use of air tools - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	n/a



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Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Air in the Blood Too close Contact with Compressed Air	Volunteers & Staff	1) CRITICAL - PPE: Gloves and goggles are always worn to minimise this risk - Effective 2) CRITICAL - PPE: Overalls should be worn and no skin exposed to potential contact with the gun - Effective	1 x	2 =	2	1) Administrative: Consider training in the safe use of power tools - Effective	1 x	2 =	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.			

**Working with Air Hoses**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Rupture of pressurised air hose resulting in small objects flying around Entrapment of hose, contact with a sharp object, or crushing of hose by a moving object	Volunteers & Staff	1) CRITICAL - Administrative: The compressor is always turned off when vehicles are moving in the workshop - Effective 2) CRITICAL - Administrative: Care is taken to ensure that the air hose connected to the tool does not become entrapped or cut in any way - Effective 3) CRITICAL - Administrative: Air hoses are periodically inspected - Effective	2 x	2 =	4	None	2 x	2 =	4	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.			

**COSHH Assessments**

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