



Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Metalwork Fabrication and Repairs - Carriage and Wagon

Risk Assessment - Metalwork Fabrication and Repairs

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Department: Carriage and Wagon

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Removal of corroded metal and preparation for welding.

Type	Hazard Cause	Persons Affected	Control Measures	L S T			Additional Control Measures	L S T			Owner/Action Overall
				Overall	Overall	Overall		Overall	Overall	Overall	
Health and Safety	Cuts and burns Use of angle grinder, hacksaw, metal chisel and hammer, file or rasp, gas cutter	Volunteers & Staff	1) CRITICAL - Engineering: Use of correct cutting tool - Effective 2) CRITICAL - Administrative: User training in safe use of cutting equipment - Effective 3) CRITICAL - PPE: Use of appropriate safety gloves for task. - Effective 4) CRITICAL - PPE: Use of suitable screens around work area, when required. - Effective 5) CRITICAL - PPE: Use of appropriate eye protection. - Effective	3 x 3 = 9	None	Medium - Risk to be minimised and controlled so far as is reasonably practical.		3 x 3 = 9	Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a	
Health and Safety	Foreign object in eye Use of angle grinder.	Volunteers & Staff	1) CRITICAL - Administrative: Ensure ejected waste material from cutting is away from face - Effective 2) CRITICAL - PPE: Use safety eyewear - Effective	3 x 1 = 3	None	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.		n	n	n	n/a
Health and Safety	Ingestion of dust Waste material from cutting e.g. insulation or wood	Volunteers & Staff	1) CRITICAL - Administrative: Clean work area regularly to stop waste build up - Effective 2) CRITICAL - PPE: Use appropriate dust mask - Effective	2 x 1 = 2	None	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.		n	n	n	n/a
Health and Safety	Exposure to asbestos	Volunteers & Staff	1) CRITICAL - Administrative: Maintain and update GWSR asbestos register. - Effective 2) CRITICAL - Administrative: Be aware of signage for existing asbestos - Effective	2 x 3 = 6	Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Check the asbestos register before starting work. - Effective 2) Administrative: Consider training staff in asbestos awareness. - Effective		2 x 3 = 6	Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a	
Health and Safety	Crush injury Falling of metal sections.	Volunteers & Staff	1) CRITICAL - Engineering: Identification of potential for metal to fall - Effective 2) CRITICAL - Engineering: Support metal to prevent risk - Effective 3) CRITICAL - PPE: Wear safety footwear - Effective	2 x 3 = 6	None	Medium - Risk to be minimised and controlled so far as is reasonably practical.		n	n	n	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
Finance	Fire Use of angle grinder and gas cutting.	Volunteers & Staff	1) CRITICAL - Engineering: Remove combustible materials from work area - Effective 2) CRITICAL - Administrative: Do not carry out any hot work within 1 hour of shift finish - Effective 3) CRITICAL - Administrative: Carry out check of working area at end of shift - Effective 4) CRITICAL - Administrative: Ensure fire extinguishers or blankets are to hand - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	3 =	6	None	n	n	n	n/a

MIG Welding

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Burns Use of MIG welder.	Volunteers & Staff	1) CRITICAL - Administrative: Ensure only suitably trained and competent workers carry out this task - Effective 2) CRITICAL - PPE: Use of appropriate safety gloves for task. - Effective 3) CRITICAL - PPE: Wear fire retardant overalls when burning - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	3 =	6	None	n	n	n	n/a
Health and Safety	Eye injury Use of MIG welder.	Volunteers & Staff	1) CRITICAL - PPE: Use of appropriate eye protection. - Effective 2) CRITICAL - PPE: Use of suitable screens around work area, when required. - Effective	3 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	3 =	9	None	n	n	n	n/a
Health and Safety	Vapour inhalation Use of MIG welder.	Volunteers & Staff	1) CRITICAL - PPE: Use of filtered air flow face mask - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 =	8	1) Engineering: Consider use of local fume extraction - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 =	8	n/a

Score and Control Measure Notes.

A filtered air flow mask must be worn by the person carrying out this activity.

A filtered air flow mask must be worn by the person carrying out this work.

Finance	Fire	Volunteers & Staff	1) CRITICAL - Administrative: Do not carry out any welding within 1 hour of shift finish. - Effective 2) CRITICAL - Administrative: Ensure fire extinguishers or blankets are to hand - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	3 =	6	None	n	n	n	n/a
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Manufacture of replacement sections



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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	Cuts and burns Use of hand and machine tools, Plasma cutting, Gas cutting and welding.	Volunteers & Staff	1) CRITICAL - Engineering: Use of correct equipment - Effective 2) CRITICAL - Administrative: Training where appropriate - Effective 3) CRITICAL - PPE: Use of appropriate gloves - Effective 4) CRITICAL - PPE: Use of suitable screens around work area when required - Effective	2 x 2 = 4	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None		n	n	n	n/a
Health and Safety	Injury to eyes Use of hand and machine tools, Plasma cutting, Gas cutting and welding.	Volunteers & Staff	1) CRITICAL - PPE: Use of appropriate eye protection. - Effective	2 x 2 = 4	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None		n	n	n	n/a
Finance	Fire Use of plasma or flame cutting.	Volunteers & Staff	1) CRITICAL - Administrative: Do not carry out any work within 1 hour of shift finish. - Effective 2) CRITICAL - Administrative: Ensure fire extinguishers or blankets are to hand - Effective	1 x 3 = 3	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None		1 x 3 = 3	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a	

Material handling

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Manual Handling Moving of material.	Volunteers & Staff	1) CRITICAL - Administrative: Use of correct lifting methods - Effective 2) CRITICAL - Administrative: Assistance of other persons for lift - Effective	3 x 2 = 6	Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Engineering: Use of Lifting Aid - Effective 2) Administrative: 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	
Health and Safety	Crush injury Moving and positioning of material.	Volunteers & Staff	1) CRITICAL - Engineering: Use of correct lifting method - Effective 2) CRITICAL - Engineering: Use of lifting equipment - Effective 3) CRITICAL - PPE: Wearing of appropriate safety footwear - Effective	2 x 3 = 6	Medium - Risk to be minimised and controlled so far as is reasonably practical.	None		n	n	n	n/a



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Health and Safety	Cuts Moving of material.	Volunteers & Staff		2 x 1 = 2	None		Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 x 1 = 2	Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a	

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.

Ends