

Gloucestershire Warwickshire Steam Railway Plc Risk Assessment for Plasma Cutter - Global

Risk Assessment - Plasma Cutter

Reference No: GLO-45756-21 Version No: 1

Assessment Approver: Kevin Jarvis

Plasma Cutting

Department: Global Date Of Assessment: 09 April 2025 Review Due Before: 09 April 2028 Lead Assessor: Geoff Goring

Team: Kevin Jarvis

Plasma Cutting



Gloucestershire Warwickshire Steam Railway Plc Risk Assessment for Plasma Cutter - Global

ype Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
alth and injury to user or those within work area Cuts, impact or fire caused by misuse	Volunteers & Staff	1) Engineering: Barrier off work area or restrict access so that any hot materials cannot impact other associates - Effective 2) CRITICAL - Engineering: Screens should be used, secured and in place to stop others from being exposed to a risk of 'arc eye' injury or being struck by ejected particles Effective 3) CRITICAL - Engineering: All equipment should be inspected to check for damage before use Effective 4) CRITICAL - Engineering: Workpieces must be securely fixed or clamped before work starts - Effective 5) CRITICAL - Engineering: Position workpieces so that any spatter or emitted projectiles are projected away from the user wherever possible Effective 6) CRITICAL - Engineering: Gas and air regulators should be inspected and 'inticket' Effective 7) CRITICAL - Engineering: All mobile electrical equipment must be PAT tested and 'in-ticket' Effective 8) CRITICAL - Engineering: Ensure that trailing hoses and electrical cables are not a trip hazard Effective 9) CRITICAL - Engineering: Be aware of the production of fumes and work in a well ventilated area Effective 10) CRITICAL - Engineering: Decontaminate all materials before work starts (grease, dirt, oils etc.) - Effective 11) CRITICAL - Engineering: Any cutting equipment, should be stored securely and appropriately Effective 12) CRITICAL - Engineering: Where work is above floor level, non-combustible curtains or sheets suspended beneath the work should be used to collect sparks - Effective 13) CRITICAL - Administrative: Users should be experienced, competent and authorised to use the plasma cutter - see workshop manager for list of approved users - Effective 14) CRITICAL - Administrative: Ensure no flammables are within the work area - Effective 15) CRITICAL - Administrative: Fire extinguishers should be available 'on the job' close to the work area Effective 16) CRITICAL - Administrative: Work should cease and a valual deviation of the work starting Effective 21) CRITICAL - Administrative: Be aware of your own limitations Eff		2) Engineering: Consider damping down	2 x 3 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a
		23) CRITICAL - Administrative: Maintain good housekeeping throughout the work area Effective 24) CRITICAL - PPE: Fire retardant overalls, gloves/gauntlets, safety footwear				
		and eye protection shall be worn. See below PPE additional note for eye protection grades - Effective				



Gloucestershire Warwickshire Steam Railway Plc Risk Assessment for Plasma Cutter - Global

Cause Affected Overall Overall	Туре	Hazard	Persons	Control Measures	L	S	Т	Additional Control Measures	L	S	Т	Owner/Action
		_			Ove	erall			Ov	erall		_

Score and Control Measure Notes.

Risk is medium if trained competent users follow the control measures.

Risk remains medium if extra control measures are followed

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.

Reference Documents

• Hot Work Standard - Loss Prevention Assoc. and Insurance Ind. -

Ends