



## Risk Assessment - Workshop - Use of a Surface Grinder or Cutter

Reference No: GLO-44419-51

Version No: 3

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Department: Global  
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### Use of a surface grinder or cutter in a workshop environment



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Workshop - Use of a Surface Grinder or Cutter - Global**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action		
Health and Safety	Personal Injury Multiple causes included contact with moving parts, sharps objects, entanglement, electrical shock etc.	Volunteers & Staff	<p>1) CRITICAL - Elimination: No loose clothes, jewellery, overly long sleeves, ties or gloves will be worn. - Effective</p> <p>2) CRITICAL - Elimination: Hands must be kept clear of the rotating or moving parts. - Effective</p> <p>3) CRITICAL - Engineering: A stop switch will be fitted within the reach of the user. - Effective</p> <p>4) CRITICAL - Engineering: Machine guards must be fitted, clean, functional and used at all times. - Effective</p> <p>5) CRITICAL - Engineering: Any fitted safety devices such as foot switches or overloads must be fitted and functional. - Effective</p> <p>6) CRITICAL - Engineering: The machine will be securely fixed to the floor or other stable and unmovable surface. Those machines that are mounted on wheels must be securely fixed whilst in use to stop them from moving. - Effective</p> <p>7) CRITICAL - Engineering: The wheel must be securely fixed, in good condition and guarded. - Effective</p> <p>8) CRITICAL - Engineering: The machine must be switched off and power isolated and locked out where possible before any maintenance activity takes place. - Effective</p> <p>9) CRITICAL - Engineering: Grinding wheels and cutting tools will be made of a suitable material for the piece being worked. - Effective</p> <p>10) CRITICAL - Engineering: Rotational and cutting speeds must be set appropriately depending on the task to be carried out. - Effective</p> <p>11) CRITICAL - Engineering: Sufficient space must be available around the machine to prevent any issues with those passing by. - Effective</p> <p>12) CRITICAL - Engineering: Floor surfaces must be clean and dry so as not to introduce a slip hazard. - Effective</p> <p>13) CRITICAL - Engineering: Grinding wheels used must be correctly rated to cover the maximum speed of the machine being used. - Effective</p> <p>14) CRITICAL - Engineering: Bonded abrasive wheels should be regularly dressed to maintain cutting effectiveness. - Effective</p> <p>15) CRITICAL - Engineering: The workpiece should be securely held in the tool and cutter grinder holder, on the surface grinder magnetic table additional steel strips may be required to prevent the workpiece/s from moving. - Effective</p> <p>16) CRITICAL - Administrative: Only competent and authorised staff are to use the equipment. - Effective</p> <p>17) CRITICAL - Administrative: The equipment will be mechanically and electrically maintained regularly and accurate records of maintenance activity will be kept. All safety features will be tested. - Effective</p> <p>18) CRITICAL - Administrative: A hair net or cap will be worn by staff with long hair. - Effective</p> <p>19) CRITICAL - Administrative: The machine must never be left unsupervised if energised. - Effective</p> <p>20) CRITICAL - Administrative: Only the user and any trainees can be near to the machine when it is in operation. - Effective</p> <p>21) CRITICAL - Administrative: Only those persons trained and competent can change machine wheels or cutting tools. - Effective</p> <p>CONTINUES ON NEXT PAGE</p> <p>22) CRITICAL - Administrative: Care must be taken when touching work pieces after working due to the potential for a burn. - Effective</p> <p>23) CRITICAL - Administrative: Loose tooling and other equipment or rags etc. must not be kept on the machine or allowed to obstruct the work area. - Effective</p> <p>24) CRITICAL - Administrative: Grinding wheels should only be changed, balanced etc by a competent person. - Effective</p> <p>25) CRITICAL - PPE: Eye protection, overalls or dust coat and steel toe-capped footwear must be worn. - Effective</p>	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 = 8		1) Engineering: Consider the use of a dust extraction system in situations where large amounts of dust are generated. - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 = 8		2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 = 8	T&RS Director - Keith Smith - Arrange for the assessment, fitting and use of appropriate guards where these are not present due to the age and/or design of the machine.



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<b>Score and Control Measure Notes.</b>											
Risk is medium due to potential injury. All control measures must be followed. The risk remains medium.											

### **COSHH Assessments**

There are no COSHH assessments associated with this risk assessment.

Ends



## Appendix

Image not found.

**Reference: UI-44419-964**  
Surface Grinder -

Image not found.

**Reference: UI-44419-863**  
Cutter -