

Geoff Tremblett Plumbing & Heating

Risk Assessment

WORK ACTIVITY ASSESSED: Hand Tools

DATE 04/08/2026

ASSESSED BY: Geoff Tremblett

LOCATION: Joesph Parry Cottage Museum Merthyr Tydfil

IDENTIFY WHO MAY BE HARMED (tick as appropriate):

Person(s)	Yes	No	Person(s)	Yes	No
Employees	x		Subcontractors	x	
Official visitors	x		General public		

NUMBER OF PERSONS AT RISK: All employees working on the shop floor

RISK RATING CALCULATOR:

Probability of an occurrence should be assessed on a scale of 1 - 4 as follows:	
1	Unlikely. If control measures do not break down.
2	Possible. If the control measures depend on an individual using/adjusting them.
3	Probable. Exposure to the hazard is continuous
4	Certain/Imminent. Exposure to the hazard is continuous and uncontrolled
Severity of occurrence should be assessed on a scale of 1 - 4 as follows:	
1	Only damage likely to occur treatable by minor first aid
2	Can cause illness or injury but not to a serious degree
3	Danger of causing serious illness or severe injury
4	Imminent danger exists, causing fatality or major illness
Calculation of risk: Probability (P) x Severity (S) = Risk rating (1 to 3 = Low Risk / 4 to 8 = Moderate Risk / 9 to 16 = High Risk)	

HAZARDS (without any existing control measures)	Risk Rating				
	P	S	1-3	4-8	9-16
Flying particles	3	2		6	
Defective or incorrect use of hand tools	3	3			9

CONTROL MEASURES TO BE ADOPTED:

- Operatives are to be instructed in the correct method of use, inspection and maintenance requirements at induction, if not part of craft training
- All tools provided must be assessed to ensure that they are fit for purpose and fit for the environment in which they are to be used and they are in good working condition
- Open-bladed knives, screwdrivers and other sharp tools are to be carried and used so as not to cause injury to the user or others by a competent person as per the manufacturers suggested intervals.
- Operatives on tools prior to their use must complete visual checks
- Tools are required to be suitable for the purpose for which they will be used

- Eye protection is to be provided and used whenever work is done using cold chisels, drills, grinders or other tools when there is risk of flying particles or other pieces of the tool breaking off
- Non-ferrous [spark free] tools are to be used in flammable atmospheres
- Insulated tools must be used where there is a possibility of live electrical work
- All tools should be kept clear of unnecessary grease, moisture or dirt
- Any movable/adjustable parts should be lightly oiled to protect against corrosion and to prevent wear and misalignment
- Sharpening activities must only be carried out by professionals, as it is a relatively skilled job
- Tools should not be left lying around, they constitute a severe tripping hazard and they are liable to get damaged
- Site Manager to monitor hand tools which can deteriorate with time to ensure they are sharpened or replaced as necessary and to ensure that the tools are being used correctly
- Specific checks should be made as follows:
 - ☐ Chisels for mushroom heads
 - ☐ Hammer and file handles for deterioration
 - ☐ Open-ended spanners for splayed jaws
 - ☐ Damage to pick and shovel handles

HAZARDS (with control measures in place)	Risk Rating				
	P	S	1-3	4-8	9-16
Flying particles	2	2		4	
Defective or incorrect use of hand tools	2	3		6	

Any activities given a hazard ranking of between 9 and 16 should cease immediately until control measures can be put in place to reduce risk.

ARE FURTHER CONTROL MEASURES NEEDED? YES [] NO [✓]

Always consider new control measures in the following order of precedence: -

Elimination - Substitution - Isolation - Engineering - Personal Protective Equipment.

Please refer to the company Risk Assessment Manual for further guidance.

IF YES PLEASE STATE REQUIRED CONTROL MEASURES:

INFORMATION, INSTRUCTION SUPERVISION AND TRAINING:

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PERSONAL PROTECTIVE EQUIPMENT (tick as appropriate):

Safety helmet	☒	Safety boots	☒	Other (please specify below)	☐
Hi-vis garment	☒	Gloves	☒		
Goggles/visor	☐	Overalls	☐		
Ear defenders	☐	Dust masks	☐		

SIGNATURE:	<u>G R Tremblett</u>
POSITION:	<u>Director</u>
DATE FOR REVIEW:	<u>Next job of works</u>