




# RISK ASSESSMENT

## Safety - Power Tools

Document Reference

**PTS.RA.S30**

Activity	Hazards	Risks	UNCONTROLLED Risk Levels	Description of controls	CONTROLLED Risk Levels																																																																				
Use of Electrically Powered Hand Tools, i.e Drills & Saws etc	Electricity	Death, Electric Shock	<b>LIKELIHOOD</b> <table border="1"> <tr><td>Most Likely</td><td>5</td><td>✓</td></tr> <tr><td>Likely</td><td>4</td><td></td></tr> <tr><td>Possible</td><td>3</td><td></td></tr> <tr><td>Unlikely</td><td>2</td><td></td></tr> <tr><td>Very Unlikely</td><td>1</td><td></td></tr> </table> <b>SEVERITY</b> <table border="1"> <tr><td>Extreme</td><td>5</td><td>✓</td></tr> <tr><td>Major</td><td>4</td><td></td></tr> <tr><td>Moderate</td><td>3</td><td></td></tr> <tr><td>Minor</td><td>2</td><td></td></tr> <tr><td>Negligible</td><td>1</td><td></td></tr> </table> <div>Risk Score deduced by multiplying Likelihood by Consequence</div> <table border="1"> <tr><td>Risk Score</td><td>25</td></tr> </table> <div> <div>Less than or equal to 5</div> <div>Between 6 and 12</div> <div>Above 12</div> <div>LOW</div> <div>MEDIUM</div> <div>HIGH</div> </div> <table border="1"> <tr><td>UNCONTROLLED Risk Level</td><td>HIGH</td></tr> </table>	Most Likely	5	✓	Likely	4		Possible	3		Unlikely	2		Very Unlikely	1		Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1		Risk Score	25	UNCONTROLLED Risk Level	HIGH	<ul style="list-style-type: none"> <li>Only competent engineers with the relevant training and experience to use Power Tools.</li> <li>Only tools provided and or approved by PTS to be used.</li> <li>All power tools used shall be either battery operated or 110 volt supply. If low voltage equipment cannot be used, then site approval is required before use and additional precautions must be taken. These will include isolating transformers and residual current devices.</li> <li>All power tools and chargers shall be PAT tested every twelve months and be in date, in accordance with the fourth edition of the IEE 'Code of Practice' for In -service Inspection and Testing of Electrical Equipment.</li> <li>Engineers to visually inspect the tools on a daily basis and prior to use. Any defective equipment identified either through the PAT test or during any inspections shall be withdrawn from service and identified as defective.</li> <li>Use right equipment for the job, do not use in a flammable atmosphere and in accordance with Manufacturers instructions, Blades and Drill bits to be used away from Body at all times.</li> <li>Loose clothing, jewellery, hair to be kept clear of moving parts.</li> <li>Electrical supply to equipment to be isolated prior to any invasive works whatsoever being undertaken as per <b>PTS.RA.SRE - Repairs to Electrical Equipment</b></li> <li>Select power tools with lowest vibration levels. Minimise the time individuals use the equipment.</li> <li>Work area to have adequate room and is well ventilated</li> <li>Engineer to employ good housekeeping, to keep work area clean and tidy to prevent trip hazards as per <b>PTS.RA.S02 Safety - Floors</b></li> </ul>	<b>LIKELIHOOD</b> <table border="1"> <tr><td>Most Likely</td><td>5</td><td></td></tr> <tr><td>Likely</td><td>4</td><td></td></tr> <tr><td>Possible</td><td>3</td><td></td></tr> <tr><td>Unlikely</td><td>2</td><td></td></tr> <tr><td>Very Unlikely</td><td>1</td><td>✓</td></tr> </table> <b>SEVERITY</b> <table border="1"> <tr><td>Extreme</td><td>5</td><td>✓</td></tr> <tr><td>Major</td><td>4</td><td></td></tr> <tr><td>Moderate</td><td>3</td><td></td></tr> <tr><td>Minor</td><td>2</td><td></td></tr> <tr><td>Negligible</td><td>1</td><td></td></tr> </table> <div>Risk Score deduced by multiplying Likelihood by Consequence</div> <table border="1"> <tr><td>Risk Score</td><td>5</td></tr> </table> <div> <div>Less than or equal to 5</div> <div>Between 6 and 12</div> <div>Above 12</div> <div>LOW</div> <div>MEDIUM</div> <div>HIGH</div> </div> <table border="1"> <tr><td>CONTROLLED Risk Level</td><td>LOW</td></tr> </table>	Most Likely	5		Likely	4		Possible	3		Unlikely	2		Very Unlikely	1	✓	Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1		Risk Score	5	CONTROLLED Risk Level	LOW
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	Damage to Electric Mains Supply Cables and or Water Pipes.	Death by Electrocution, Electric Shock, Flooding and Damage to Building and or Equipment																																																																							
	Restricted work area / Ergonomic	Death by Electrocution, Electric Shock, Slips, Trips, Falls, Cuts, Abrasions, Bruising & Muscular Strains																																																																							
	Sharp surfaces Power Tool i.e Drill, Saw	Cuts & Abrasions Loss of limb, Major Injury, Eye Damage, Cuts & Abrasions																																																																							
	Obstructions on floor Vibration	Slips, Trips & Falls Hand/Arm Vibration Syndrome (HAVS)																																																																							
	Dust	Respiratory illness Reduced visibility Skin irritation																																																																							
	Overheating Tool jamming or binding	Burns to hand wrist Wrist/hand injury																																																																							
	Moving parts	Entanglement																																																																							
	Fire (Electrical)	Death and or Burns																																																																							
	Noise	Temporary or permanent hearing loss																																																																							
	Flying Debris	Eye, Hand or Facial Injury																																																																							
<b>ADDITIONAL CONTROL MEASURES</b>  <b>Flammable/Explosive Atmosphere</b> Do not use heat generating equipment without Hot Work Permit. Do not work near flammables, compressed gases, in explosive atmospheres or confined spaces without specialist advice.  <b>Flying Debris, Swarf</b> Use protective eyewear or face shield. Use guards where appropriate. Wear protective gloves where appropriate. Advise nearby persons of hazard. Isolate area with barriers, tape etc. where necessary.  <b>Dust</b> Use a dust mask (check for fit). Increase ventilation to work area (e.g. open windows, temporary extract etc.) Wear close-fitting safety goggles. Stop working if visibility is noticeably reduced. Wear suitable protective clothing (especially gloves). Clean work area regularly.  <b>PPE</b> Appropriate PPE equipment must be used particularly, Safety Goggles (to BS EN 166B), Ear Plugs and Gloves as per <b>PTS.RA.S40 Safety - PPE</b>			<b>AFFECTED INDIVIDUALS</b> <table border="1"> <tr><td>PTS Personnel</td><td>✓</td></tr> <tr><td>Maintenance Personnel</td><td>✓</td></tr> <tr><td>Catering Staff</td><td>✓</td></tr> <tr><td>Customers</td><td></td></tr> <tr><td>Visitors</td><td></td></tr> <tr><td>Delivery Personnel</td><td></td></tr> <tr><td>Others (specify)</td><td></td></tr> </table> <b>PPE REQUIREMENTS</b> as per <b>PTS.RA.S40</b> Safety Boots (EN 20345), S3 WR SRA Protective Work Wear Clothing Cut Proof Lvl 3 Safety Gloves (EN388) Safety Goggles (EN166)			PTS Personnel	✓	Maintenance Personnel	✓	Catering Staff	✓	Customers		Visitors		Delivery Personnel		Others (specify)		<b>Additional Measures</b> <b>PTS.RA.S01 Safety - Working on Customer Sites</b> <b>PTS.RA.S10 Safety - Electrical</b>																																																					
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			<b>NB: This document and any amendments must be retained for a minimum of 5 years.</b> In the event of an incident involving an individual aged 18 years or less this documentation must be retained until the individual reaches 21 years of age, this requirement overrides the minimum 5 year rule.																																																																						