

**Risk Assessment:** 00063

**Risk Assessment of:** Cabin repairs and maintenance

**Assessors Name:** Mark Black & Harry Steed & Lee Potter

**Date Written:** 26<sup>th</sup> May 2008  
Updated 14<sup>th</sup> December 2011 Updated  
29<sup>th</sup> March 2014

**Persons Affected:** All Staff & Bystanders

Review Undertaken Because:	Risk Rating Legend (1 low – 5 high)
New control measures implemented <input type="checkbox"/>	L = Likelihood  C = Consequence  L x C = RR Risk Rating
Following an accident or report of ill health <input type="checkbox"/>	
Technological advances <input type="checkbox"/>	
New guidance or legislation published <input type="checkbox"/>	
Changes in workplace or work activities <input type="checkbox"/>	
Required at least annually <input type="checkbox"/>	

Hand Arm Vibration Spreadsheet

Asset No.	Tool Type	Vibration Magnitude M/S <sup>2</sup> r.m.s.	Exposure Points	Time to reach EAV 2.5 M/S <sup>2</sup> A(8)		Time to reach ELV 5 M/S <sup>2</sup> A(8)		Exposure Duration (Trigger Time)		Partial Exposure M/S <sup>2</sup> A(8)	Partial Exposure Points
				Hours	Mins	Hours	Mins	Hours	Mins		
Hirefleet Workshop	RH159A	3.86	30	3	21	13	25				
Hirefleet Workshop	RH112A	4.21	35	2	49	11	17				

Significant Hazards Identified	Uncontrolled Risk Rating			Existing Control Measures	Risk Rating with Existing Controls			Further Control Measures to be Implemented	Risk Rating with Additional Controls		
	L	C	RR		L	C	RR		L	C	RR
Hand Arm Vibration from equipment – 2 pieces identified  Orbital sanders have been tested between – 3.86 – 4.21- m/s2 (see table above)  Further details <a href="http://www.powertoolsalesuk.com/calculator">www.powertoolsalesuk.com/calculator</a>	4	4	16	The certificates show that the sanders could be used for over 11 hours (finger on the button) and still be below the Exposure Limit Value (ELV) but above the Exposure Action Value (EAV)	2	3	6	Review best equipment when buying replacement equipment and new technology where possible	1	3	4

Grinders – 10m/s2 typical points per hour = 200, max daily use for fabrication staff = 1.5 hours = total of 350 points	4	4	16	As the results might mean that some days employees are over the EAV we operate the following recommendations:  Organise work to reduce exposure to individuals Regular breaks Rub down with cloths where possible Get test certificates done on new models Maintain regularly and replace if problems Shot blast cabins needing excessive surface preparation	2	3	6		1	3	4
Excessive Noise from operations	4	4	16	Periodic testing of work areas using noise meter (operated by our health and safety consultant) to identify noise levels Share these areas with staff so that appropriate PPE is worn Where possible mark noise areas with signage	2	3	6	Review alternative equipment with noise reduction features when buying replacement machinery			
Moving Cabins using 2 forklift trucks	2	4	8	Use of banksman  Radio Headset when only 2 operators present	2	4	8		1	4	4
Hazards associated with paint spraying and preparation (mainly using quick drying paint containing zinc phosphate)	4	4	16	<b>Engineering controls:</b> LEV (local exhaust ventilation) to exhaust flammable vapours and dust Air fed respiratory equipment to maintain clean air supply to operator (additional masks for assistant operators) with	2	4	8	Record routine servicing  Engineering changes to spraybooth to improve air flow  Replacement and upgrade of	2	4	8

				<p>integrated eye protection  Use of eye protection when mixing paints  Vacate spray area until returned to normal OELs (Occupation exposure limits)  Record routine servicing of LEV and air fed mask equipment  Use of disposable paper type coveralls  Intrinsically safe electrical equipment not necessary as more than 2m from spray area (less than 1m is zone 1, between 1m and 2m is zone 2, over 2m no intrinsically safe equipment required).  Clear up spillages using non combustible materials ASAP (sand bucket), as spillages can be a source of potential build up of high concentrations of vapours  Used wipes to be stored in suitable non flammable container  When mixing paints, poured from as low as possible, so containers earth each other  30min run time on extraction  <b>Please note</b>  Following discussions with manufacturer anti static clothing and footwear is not necessary in this environment</p>				lights and electrics			
Use of rufabrush				<p>Use outside where possible  If used inside ventilate area by opening doors and / or using LEV (local exhaust ventilation if necessary)</p>							
<p>Compressed Air Tools:</p> <ul style="list-style-type: none"> <li>• Air in Blood</li> <li>• Explosions (Tyres)</li> <li>• Cuts &amp; Abrasions</li> <li>• Entanglement.</li> </ul>	3	5	15	<p>Trained Technicians</p> <ul style="list-style-type: none"> <li>• Pre use inspection &amp; maintenance</li> <li>• 12 monthly compressor inspections</li> <li>• 12 monthly compressor servicing</li> <li>• Tyre inflation information.</li> </ul>	1	5	5				
<p>Orbital Sanders</p> <p>Dust / Vibration / Noise</p>	3	4	12	<p>Face mask FFP2D  Eye protection  Ear protection  Padded sanders  Regular breaks  See vibration assessment above</p>	1	4	4		1	4	4
Leakage of paint into environment and	4	3	12	Kept in a locked ventilated and insulated	1	3	5				

prevention of paint as a potential fire hazard				bunded steel container situated outside the work area							
Working on hands and knees, either whilst working on a floor or whilst working on a cabin or container roof	3	3	9	Knee pads worn to protect knees from sharp objects.  Daily work planned to rotate tasks to reduce likelihood of repetitive injuries	1	3	3				
Manual Handling including moving furniture, moving work equipment, moving heavy items	4	3	12	Staff trained in manual handling best practice including Safety Media manual handling DVD and information knowledge and experience to plan lifting operations  HIABs fitted to all lorries and equipped with wide range of lifting tackle  Where possible forklift trucks are used to move heavy items (2no available)  If forklift truck not suitable then items loaded into large panel sided van (VW Crafter) in which staff can stand up for loading / unloading  Other equipment available include 2no sack barrows with puncture proof tyres, one truck modified moving stacking chairs or pallet truck	2	3	6	Periodic Manual handling training	2	3	6
Slips, Trips & Falls from working from a cabin or container	4	5	20	Use of forklift jib with inertia reel fall arrest fitted (always have forklift operator present for effecting a rescue in the event of a fall) At least one person trained in use of harness. Jib and fall arrest attachments inspected annually.  Use of safety track in workshop when working on roofs (always have second person present for effecting a rescue in the event of a fall) At least one person trained in use of harness. Jib and fall arrest attachments inspected annually.	1	5	5	Possibly build additional gantry	1	5	5

			Share gantry between workshops when undertaking larger projects.							
			Good Housekeeping – keep work areas clean and tidy							
Electric shock and inspection and maintenance of work equipment	2	5	10	<p>All staff are responsible for completing daily user checks of all 240v and 110v electrical equipment, including checking the following. Unit managers to ensure that this process is completed daily by all staff.</p> <ol style="list-style-type: none"> <li>1. Is there damage (apart from light scuffing) to the cable sheath?</li> <li>2. Is the plug damaged (e.g. the casing cracked or pins bent)</li> <li>3. Are there inadequate joints, including taped joints, in the cable?</li> <li>4. Is the coloured insulation of the internal cable cores showing where they enter the plug?</li> <li>5. Does the appliance appear to have been subjected to conditions for which it is not suitable (e.g. is it wet or excessively contaminated)?</li> <li>6. Is there damage to the external casing of the equipment or are there loose screws or parts etc?</li> <li>7. Is there evidence of overheating (e.g. burn marks or discoloration)?</li> <li>8. Is the main on/off switch damaged, does it operate incorrectly?</li> </ol> <p>If the answer is YES to any of the above, equipment to be removed from service immediately and labelled not for use and then Referred to electrician or supplier for repair or replacement.</p> <p>Periodic PAT Testing, Mark Black is responsible for organising and ensuring that all equipment tested and inspected annually for workshop and other equipment.</p>	1	5	5			

				Where possible 110 volt equipment is used in workshop areas and whenever equipment is replaced where there is a choice 110 volt must be purchased.							
Asbestos, either left in a cabin or container following a hire, or part of the unit that we need to repair	2	5	10	Leave materials alone, prevent access by locking door, stop work immediately and report to Mark Black, Director responsible for health and safety  Maintenance staff to watch Safety Media Asbestos DVD to improve identification of asbestos related products	1	5	6				
Bottled gas and associated equipment including transport	5	5	25	Caged storage area Daily user inspections MIG equipment replaced annually Gas cutting equipment replaced every 5 years, annual inspection for equipment over 12 months old. TREM card for vehicles Magnetic signage for vehicles Refer COSHH 105	2	5	10	Training for staff (online test)			
Hazards associated with welding and cutting	3	5	15	Work areas regularly cleaned Remove all combustible items from work area before commencing work Work planned to minimise production of hot materials Building checked before leaving unattended and before going home	2	5	10	Investigate installation of smoke alarm	1	5	5
Cleaning Products: <ul style="list-style-type: none"> <li>• Dermatitis &amp; skin damage</li> <li>• Eye injury</li> <li>• Respiratory damage</li> <li>• Burns</li> </ul>	3	4	12	Technicians to follow manufacturers instructions: <ul style="list-style-type: none"> <li>• Wear appropriate PPE.</li> </ul>	2	4	8				
Contact with human waste when cleaning or transporting toilets and waste tanks; <ul style="list-style-type: none"> <li>• Cholera</li> <li>• Dysentery</li> <li>• Hepatitis A</li> </ul>	5	5	25	Disposable nitrile gloves to be worn.  Clean toilets with chlorine bleach.  Wash hands for at least 30 seconds with a anti-bacterial soap immediately when finished.	3	5	15	Supergrip rubber gauntlet gloves to be worn to protect forearms or cuffs of clothing. Glovers must be to EN388 and EN374-2+3 standard.  All technicians who would be	1	5	5

<ul style="list-style-type: none"> <li>• Hepatitis B</li> <li>• Measles</li> <li>• Polio</li> <li>• Amoeba</li> <li>• Giardia</li> <li>• Hookworm</li> <li>• Pinworm</li> <li>• Roundworm</li> <li>• Tapeworm</li> <li>• Trichina worm</li> </ul>								involved in the cleaning or transportation of toilets and waste tanks to have Hepatitis A and B inoculations.			
<p>Fire and Hot works</p> <ul style="list-style-type: none"> <li>• Explosions</li> <li>• Smoke Inhalation</li> <li>• Burns</li> </ul>	3	5	15	<p>Regular Equipment Inspection &amp; Maintenance</p> <p>Electrical Testing Schedule.</p> <p>Good House keeping Policy</p> <p>Fire Procedures &amp; Training</p> <p>Regular Fire Extinguisher Servicing &amp; Inspection</p> <p>No Smoking Policy</p> <p>Intrinsically safe extraction equipment to remove vapours</p> <p>At least one member of staff has watched “Extinguishing fires at work DVD”</p>	1	5	5				
<p>People:</p> <ul style="list-style-type: none"> <li>• Muscoloskeltel Injury</li> <li>• Repetitive Strain Injury</li> <li>• Welfare</li> </ul>	4	4	16	<p>Experienced Trained staff.</p> <p>Manual handling Training.</p> <p>PPE: (as listed) must be worn.</p> <p>Adequate washing, Drinking water, Rest Area, &amp; Toilet facilities.</p> <p>Regular breaks from continuous Repetitive Actions</p>	2	4	8				
<p>Young People: ( under 18 years)</p> <p>Special Account to be taken of.</p> <ul style="list-style-type: none"> <li>• Inexperience &amp; Immaturity</li> <li>• Lack of Awareness</li> <li>• Physical strength</li> <li>• Exposure to Biological, Chemical, Or Physical Agents</li> </ul>	4	4	16	<p>Training for task.</p> <p>Tasks matched to persons ability.</p> <p>Supervision by competent person.</p> <p>Constant Monitoring.</p> <p>Regular breaks.</p> <p>Instructed in the correct use and requirements for wearing PPE.</p> <p>Limit Working Hours</p>	1	4	4				



**POWER TOOL SALES**  
PNEUMATIC TOOL SPECIALISTS

### VIBRATION TEST CERTIFICATE

This is to certify that

**Tool:** RH112A **Serial No:** 110701575

Was tested for vibration on: 21.12.2011

Sanding: 2mm steel using a P80 Hermes sanding sheet

In accordance to BS EN ISO 5349 using a Larson Davies HVM100 vibration meter:

**SERIAL No. 110701575**

With a Tri Axial Vibration Figure of

**4.21 m/s<sup>2</sup>**

To see how long this tool can be used for enter **4.21** into our Hand Arm Vibration (HAV) calculator at:

<http://www.powertoolsalesuk.com/calculator>

**Tested By Jeff Stevens**

All figures shown reflect those of a brand new tool. They will in no way be accurate through the entire life of the tool. All tests carried out to the specifications given by the purchaser.



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### VIBRATION TEST CERTIFICATE

This is to certify that

**Tool:** RH159A **Serial No:** 110905491

Was tested for vibration on: 21.12.2011

Sanding: 2mm steel using a P80 Hermes sanding sheet

In accordance to BS EN ISO 5349 using a Larson Davies HVM100 vibration meter:

**SERIAL No. 110905491**

With a Tri Axial Vibration Figure of

**3.86 m/s<sup>2</sup>**

To see how long this tool can be used for enter **3.86** into our Hand Arm Vibration (HAV) calculator at:

<http://www.powertoolsalesuk.com/calculator>

**Tested By Jeff Stevens**

All figures shown reflect those of a brand new tool. They will in no way be accurate through the entire life of the tool. All tests carried out to the specifications given by the purchaser.

