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| **Risk Assessor:** | Andy Wilson | Signature: |  | Date: | 25.11.2010 |  |  |  |
| **Business Manager:** |  | Signature: |  | Date: |  |  |  |  |

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| **Description of Task**: | **Associated Documents** |
| Wood dust is produced during machining of timber, plywood, MDF, and other timber-based materials on the bench saw, radial arm saws, vertical panel saw, wood lathe, routers, belt and orbital sanders, and hand-held circular saws. Staff and students can be exposed to wood dust during these processes, and when handling and assembling wooden scenery, cleaning the workshop and emptying dust extraction equipment. | * *Control of substances hazardous to health. The Control of Substances Hazardous to Health Regulations 2002. Approved Code of Practice and guidance* (HSE) * *Wood dust: hazards and precautions* (HSE Information sheet) * *Timber and wood-based products* (TRADA COSHH data sheet) * Method Statements for relevant scenic construction workshop machinery, Guildhall School Technical Theatre Dept. |

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| **Risk Assessor** | **Reason for review** | **Date** | **Version** |
| Andy Wilson | Review of hazards, controls and risks. Updating terminology. | 6.4.2014 |  |
| Andy Wilson | Scheduled review | 18.02.2017 |  |
| Andy Wilson | Scheduled review | 17.04.2019 |  |
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| **Consequence** | | **Likelihood** | | **Risk** | |
| Describe the Hazard and how it might cause harm | Rating L1,M2,H3 | Existing Control Measures and Justification | Rating L1,M2,H3 | Consequence X Likelihood L1,L2,M3,M4,H6,H9 | |
| Exposure to wood dust can cause skin disorders, obstruction in the nose, rhinitis, asthma, and a rare type of nasal cancer.  Both softwood and hardwood dusts have MELs of 5mg/m3 8 hr TWA.  Plywood and MDF dusts may give off formaldehyde, which can cause asthma and irritation of skin, eyes, nose and throat, and is a probable human carcinogen.  Formaldehyde has a MEL of 2 ppm. | 3 | * Working methods are designed to minimise dust production * We use only E1 standard MDF (≤ 0.8mg/100g free formaldehyde) or better. “The MEL for formaldehyde … is rarely likely to be exceeded from most boards in normal use and processing” (*TRADA*) * Local exhaust ventilation extracts dust from bench saw, radial arms saws, tenoning machine and vertical panel saw. LEV equipment is regularly tested by the School’s insurers and by service engineers, and dust collectors are emptied regularly by workshop staff. * Hand-held tools including jigsaws, belt sanders, circular saws and most routers are connected to a portable extractor when practicable * Eye protection is worn during all machining operations, and disposable gloves and FFP2 dust masks are available. Dust masks are worn during all routing and power sanding operations. Eye protection, gloves, and masks are worn whenever LEV collectors are emptied. * Machines and areas around them are cleaned down regularly. The workshop is deep-cleaned by contractors three times yearly. | 1 | 3 | |
| Additional Control Measures - *Suggestions to be written in the box below and submitted for review* | | | **Revised risk rating (residual risk)** | | |
|  | | | **Consequence** | **Likelihood** | **Risk** |
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| **Action by** | | **Date** |
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| **Consequence** | | **Likelihood** | | **Risk** | |
| Describe the Hazard and how it might cause harm | Rating L1,M2,H3 | Existing Control Measures and Justification | Rating L1,M2,H3 | Consequence X Likelihood L1,L2,M3,M4,H6,H9 | |
| Wood dust on the floor can cause slipping, which could result in injury from falls or from woodworking machinery | 3 | * The workshop floor is vacuumed or swept regularly. * Method Statements for the various machines clearly state that the floor should be clear and clean before starting work at the machine. | 1 | 3 | |
| Additional Control Measures - *Suggestions to be written in the box below and submitted for review* | | | **Revised risk rating (residual risk)** | | |
|  | | | **Consequence** | **Likelihood** | **Risk** |
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| **Consequence** | | **Likelihood** | | **Risk** | |
| Describe the Hazard and how it might cause harm | Rating L1,M2,H3 | Existing Control Measures and Justification | Rating L1,M2,H3 | Consequence X Likelihood L1,L2,M3,M4,H6,H9 | |
| Concentrations of small dust particles in the air can form a mixture that will explode if ignited.  Wood dust will also burn readily if ignited. | 3 | * The workshop is equipped with smoke detectors, sprinklers and fire extinguishers * LEV equipment is tested, cleaned and maintained regularly * The workshop is cleaned regularly * The workshop is deep-cleaned by contractors three times a year. | 1 | 3 | |
| Additional Control Measures - *Suggestions to be written in the box below and submitted for review* | | | **Revised risk rating (residual risk)** | | |
|  | | | **Consequence** | **Likelihood** | **Risk** |
|  |  |  |
| **Action by** | | **Date** |
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