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| **RA-012 RISK ASSESSMENT** | **GENERAL PULMBING** | | **Frequency and Job Specific Information:** Please Refer to Project/ Method Statement | | |
| **Risk Assessment prepared by** |  | **Name of Person approving RA:** |  | **Date of last review:** |  |
| **Next review due** |  |
| **Limits of use without need for project specific sign off** |  | | | **Circulation List** | All site staff and Project Managers |

**Project specific details & Sign-off by Project Manager (only completed where the standard controls no longer apply)**

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| **Job Number** |  | **Site:** |  | **Project Manager Approving Amended Risk Assessment** |  | **Date:** |  |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **ACCESS TO SERVICES** | Exposure to  hazardous  substances  including:  dust, paints,  varnishes and  asbestos  Wastewater | **Site staff**  **General public**  **Serious long-term illness**  **Asphyxiation**  **Allergic reaction**  **Dermatitis**  **Leptospirosis or Parvovirus** | **3** | **4** | **12** | * Consult COSHH list and risk   assessments prior to the use of or creation of hazardous substances or materials   * Use low risk alternatives where available * Appropriate PPE RPE/FFP3 mask to be supplied and worn as identified * Dampen down surfaces prior to sanding * Hover up, don’t sweep * Consult appropriate asbestos information for the property/task * Site staff to wear gloves and protective footwear at all times | * All site staff must have asbestos awareness training annually * Ensure all site staff required to wear tight fitting RPE must be face fit tested for their particular mask type * PPE to be issued, recorded,   monitored and replaced  where appropriate   * Stop work if unsure about   asbestos information  provided for the task and  report to supervisor/  manager   * Site staff must wash their hands before eating, drinking and smoking | **1** | **4** | **4** |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **MOVING EQUIPMENT** | Moving items of equipment  Manual handling | Site staff  General public  **Sprains and strains**  **Slips & trips**  **Laceration**  **Impact injury**  **Crush injury** | **3** | **3** | **9** | * Operatives are trained and competent in the task * Safety footwear to be worn at all times * Resources available for team lifts where appropriate * Appropriate lifting aids to be used where possible * Check the route before the lift | * All site staff must complete manual handling training * Document operative * training and competence * PPE to be issued, recorded, monitored and replaced * Ensure correct resources are allocated as required * Risk assessment prepared for all manual handling tasks complies with TILE | **1** | **3** | **3** |
| **WORKING AT**  **HEIGHTS** | Working at height  Falling equipment | Site staff  General public  **Serious personal injury**  **Falls from height**  **Being struck by**  **falling objects** | **2** | **5** | **10** | * Tool belts to be worn by all site staff * All site staff to receive working at height training * Ensure correct means of access equipment or working platform is identified for every task * Ensure means of access and egress if on the working platform, is secured before the start of the works | * Ensure kick boards are in place before the start of works * No tools equipment to be stored at height * Appropriate footwear to be worn at all times * Ensure work areas in communal areas are appropriately cordoned off and safety signage is in place * If working in a domestic property that is occupied ensure that tenant is aware of works being undertaken and any associated risks | **1** | **5** | **5** |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **WORKING IN THE OPEN** | Weather conditions | Site staff  General public  **Serious personal injury**  **Heat stroke**  **Hypothermia**  **Eye damage**  **Sun burn** | **3** | **3** | **9** | * Site staff to ensure that they remain well hydrated through the day * Appropriate levels of clothing to be worn to reflect the ambient temperature * Sunscreen to be applied to exposed areas of skin for UV protection * External works to be postponed by supervisor/management in the event of excessive inclement weather * External work areas to be gritted during icy conditions | * Weather to be checked and monitored during the task. * No working at height permitted in windy conditions * External works to be postponed by supervisor/management in the event of excessive inclement weather * Consider the issue of sun protective clothing * If required ensure appropriate sun safety glasses are provided * Regular toolbox talks to be given to site staff and recorded in regard to weather conditions and the measures required. | **2** | **3** | **6** |
| **USE OF POWER TOOLS** | Power tools  Electricity | Site staff  General public  **Serious personal injury**  **Cuts**  **Abrasions**  **Eye injury**  **Flying metal pieces and objects**  **Electrocution** | **3** | **3** | **9** | * All tools to be maintained in good condition * Tools to only be used for the task intended in line with any manufacturer’s instructions * All tools to be inspected by the user prior to use * All tools to be guarded as per manufacturer’s instructions * Guards to be inspected regularly * All tools to be covered under an appropriate PAT schedule * Allow sufficient space to work safely * All tools to be appropriately stored to avoid damage | * All tools to be battery powered or 110V * Ensure that all cables are secured to avoid trip hazards * Ensure dust extraction is fitted to all tools if required * Prevent use of tools by unauthorised persons, to include tenants and members of the public * Appropriate PPE to be supplied and worn as identified * Condition and appropriate use of hand tools to be checked during H&S inspections | **1** | **3** | **3** |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **WORKING WITH POWER TOOLS**  **NOISY AREAS** | Power tools  General noise levels  Other trade noise production | Site staff  **Exposure to**  **high levels of noise**  **Occupational**  **hearing loss**  **Tinnitus** | **3** | **3** | **9** | * Most work is restricted to short duration * Use self-dampening tools where available * Appropriate PPE to be supplied and worn as identified * Regular site inspections to check noise levels * Ensure that hearing protection is compatible with all other PPR/RPE | * Noise monitoring to be carried out for tasks and equipment that fall outside the scope of short duration * Hearing protection to be worn for all equipment that exceeds levels of 85db * Regular toolbox talks on noise for all site staff | **1** | **3** | **3** |
| **USING VIBRATING TOOLS THAT GENERATE VIBRATION OR IMPACT** | Hand arm  vibration  Exposure to  occupational  injuries to  blood vessels,  nerves and  joints | Site staff  **Exposure to**  **high levels**  **vibration when using tools** | **3** | **3** | **9** | * Tools with built in HAV dampener protection to be used where available * Gloves to be worn when using tools that generate vibration or impact * Regular toolbox talks for all site staff on vibration risk and controls * Limit the time using the tools | * HAV questionnaires to   be completed for all  operatives   * Any existing conditions or new   symptoms to be referred  to occupational health  advisor  Regular site inspections to be completed | **1** | **3** | **3** |
| **WORKING IN FIT OUT AREA** | Cables  Work materials  tools | Site staff  **Personal injury**  **Trips on**  **trailing cables**  **or materials**  **Slips** | **3** | **3** | **9** | * All cables to be taped down, covered or attached at a high level to prevent trip hazards * All materials and waste to be tidy or removed from site to maintain good housekeeping standards and prevent trip hazards | * To be monitored during * H&S inspections * Regular waste collections to take place in order to prevent build-up of waste on site * Consider the use of cable mats in high traffic areas * Appropriate safety signage to be placed in the area prior to the works taking place. | **1** | **3** | **3** |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **ACCESS TO PIPE WORK CUTTING DRILLING INTO**  **LIVE SERVICES WHEN**  **ACCESSING PIPE WORK** | Live services  Pipe work | **Site staff**  **Death**  **Electrocution**  **Burns**  **Cuts**  **Impact injury** | **2** | **5** | **10** | * Accurate scan to be completed to identify the location of services in walls or underground by use of pipe or cable detector or CAT scan * Regular toolbox talks to be completed for all staff * Regular site inspections | * Location of services to be marked in area * Ensure electricity services are locked off before the start of the works * Ensure lock off tags are used | **1** | **5** | **5** |
| **ACCESSING CONFINED**  **OR REMOTE SPACES**  **SUCH AS**  **LOFT SPACES**  **PLANT ROOMS** | Lone working  Falls from height  Dust  Disturbance of asbestos containing  materials  Lack of appropriate asbestos information supplied  for the property/task  Failure to comply with asbestos procedures  Lack of lighting | Site staff  Panic  Asphyxiation  Exposure to asbestos material  Inhalation of dust  Loft insulation material  Slips, trips and falls  Load weight of loft space | **3** | **5** | **15** | * Use extension/telescopic ladder to enter loft space, ensuring that ladder passes into loft space allowing for safe step on/off * If using existing loft ladder carry out   inspection to ensure that it is safe to use   * Ensure appropriate task lighting is   available/installed into loft space/plant room   * If mobile/GPS is unavailable implement lone working procedures, call location   and expected completion time through to supervisor or scheduler or log location on lone working device if issued   * Use safe means to move around loft space such as existing floorboards or crawl boards * Ensure loading weight of loft area is checked and verified as safe before the start of the works * Ladder must be part of the ladder register * Complete regular ladder inspections. | * Consider safe system of work * Asbestos survey of the area before the start or works * All site staff working in location to be shown copy of the asbestos site management plan * Stop work immediately if you uncover materials suspected to be asbestos * All staff to wear appropriate RPE * All staff wearing tight fitting RPE must be face fit tested * Protective clothing to be worn to protect against loft insulation fibres * Ensure measures are in place to prevent falling through ceiling material * All site staff to complete asbestos awareness training annually * Regular toolbox talks to be completed in relation to asbestos, dust and working at height | **1** | **5** | **5** |

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| **Activity** | **Hazard** | **Main Risks**  **&**  **Affected Persons** | **Risk Rating** | | | Existing **Risk Controls** | AdditionalRisk Controls | **Residual Risk** | | |
| **P** | **O** | **RR** | **P** | **O** | **RR** |
| **WORKING WITH COMBUSTABLE MATERIALS** | Ignition of  flammable  liquids  vapours  combustible  materials | Site staff  **Serious person injury**  **Burns**  **Entrapment**  **Damage to**  **property** | **2** | **4** | **8** | * Alternative ways of working should be considered e.g. mechanical fixing, sawing adhesives, * Where hot works are unavoidable, works assessed as low risk should be carried out under the ‘hot works standard operating procedure’ * Operations of a non-routine nature that cannot be adequately controlled should be subjected to a hot works permit * Ensure all staff complete a site induction and are aware of the evacuation route and procedure * Appropriate firefighting equipment to be placed in the area before the start of works * Combustible waste to be removed on a regular basis | * Regular H&S inspections should examine work to assess that they are being carried out in line with the standard operating procedure * The permit to work should be issued by a competent person and recorded on a permit to work register * An adequate period of fire watch should be implemented for all hot works * COSHH assessment to be completed for all substances * Hazard safety data sheet to be checked for flammability risk * Implement the asbestos emergency procedure | **1** | **4** | **4** |
| **WORKING ON SITE WITH OTHER TRADES**  **PEOPLE**  **CUSTOMERS** | Poor standard of work  Low customer satisfaction  Violent and aggressive behaviour from customer | Site staff  Violence  Serious personal injury | **2** | **3** | **6** | * Ensure there is a dedicated supervisor to keep all parties informed of work procedures and standards * Regular H&S inspections to take place. * For site work, ensure that the CDM plan is communicated to all other trades | * Regular toolbox talks relating to stress and violence * Where required conflict resolution training * Regular safety inspections of the work area * Ensure all safety warning signs are displayed * Ensure all access & entry points are secured on site. | **1** | **3** | **3** |
| **UNIDENTIFIED PERSON GAINING ACCESS TO SITE**  **TRESSPASSERS** | Unorthoriated entry to work area/ site | Site staff  Slips trip falls  Serious personal injury | **2** | **4** | **8** | * Ensure the site is secured at the end of the day * Regular check to be made of fencing barriers to ensure that are all intact. | * Ensure any excavations are covered securely * All ladders to be locked away or secured so they cannot be used | **1** | **4** | **4** |

**PPE Required**

**(Please tick all that apply)**

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| **SAFETY HELMET**  **MUST BE WORN** | **HIGH VISIBILITY VEST**  **MUST BE WORN** | **SAFETY BOOTS**  **MUST BE WORN** | **SAFETY GLOVES**  **MUST BE WORN** | **EYE PROTECTION**  **MUST BE WORN** | **EAR PROTECTION**  **MUST BE WORN** | **SAFETY OVERALLS**  **MUST BE WORN** |
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|  |  |  |  |  |  |  |
| **LABORATORY COATS**  **MUST BE WORN** | **WELDING MASK**  **MUST BE WORN** | **VISORS**  **MUST BE WORN** | **HAIR NETS**  **MUST BE WORN** | **ESCAPE ROUTES**  **TO BE KEPT CLEAR** | **SAFETY HARNESSES**  **MUST BE WORN** | **NO MOBILE PHONES** |
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|  |  |  |  |  |  |  |
| **REPIRATORS**  **MUST BE WORN** | **HAVE YOU BEEN**  **FACE FIT TESTED?** | **PEDESTRIAN MUST**  **USE THIS ROUTE** | **INTRINSICALLY SAFE OVERALLS**  **TO BE WORN** | **INTRINSICALLY SAFE FOOTWEAR**  **MUST BE WORN** | **OPAQUE SAFETY GLASSES**  **MUST BE WORN** | **DRIVERS MUST REPORT TO SITE OFFICE** |
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**Notes**

* For risk assessments requiring project specific amendment - the Risk Assessment shall be reviewed weekly to ensure, it remains current as the project progresses.
* All employees to attend site induction/sign-in prior to commencing work on site.
* First Aid facilities to be provided by Client/Principal Contractor
* Welfare facilities to be provided by Client/Principal Contractor

**Risk Assessment Matrix**

**Multiply scores to arrive at risk rating (RR)**

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Probability** | | | | | |
|  |  | **Remote** | **Unlikely** | **Possible** | **Probable** | **Very Likely** | **Certain** |
| **Outcome** | **No Injury** | **0** | **1** | **2** | **3** | **4** | **5** |
| **Minor Injury** | **1** | **1** | **2** | **3** | **4** | **5** |
| **First Aid Injury** | **2** | **2** | **4** | **6** | **8** | **10** |
| **Reportable Injury**  **(7 Day)** | **3** | **3** | **6** | **9** | **12** | **15** |
| **Major Injury** | **4** | **4** | **8** | **12** | **16** | **20** |
| **Fatality/Disability** | **5** | **5** | **10** | **15** | **20** | **25** |

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| **Low** | **1 – 6** | **Monitor** | **Tolerable risk. No additional controls required. Employees made aware of safe/correct system of work.** |
| **Med** | **8 – 12** | **Improvement** | **Action required to further reduce risk to acceptable level. Review of process or activity.** |
| **High** | **15+** | **Immediate Action** | **Unacceptable risk. Stop activity immediately. Inform next level of management & refer to Manager/Safety Coordinator. Possible withdrawal of process or activity.** |

**Monitoring and Review**

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| **Date Completed** | **Assessed by:** | **Job Title:** | **Signature:** | **Review Date:** |
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**Further Actions**

**(Please detail any actions for the risk assessment here)**

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| **Issue** | **Further action** | **Action by who?** | **Action by when?** | **Completed** |
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**All actions to be followed up are marked in bold in the body of the risk assessment above.**

**Confirmation of Risk Assessment & Method Statement Briefing**

**Before commencing the activities covered in this safe system of work document all staff are to sign below to confirm that a clear briefing explaining the job has been given and is understood**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Signature** | **Date** | **Comments** |
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