## C:\Users\kmcul0\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Portable_Plant_Fixed_PERA.JPG

**JACKHAMMER**

## Scope

This document is to be completed for staff and student use of machinery, plant and equipment as a part of a school curriculum activity or program.

Refer to the [ITD Guidelines](http://education.qld.gov.au/health/pdfs/healthsafety/itd-staff-guidelines.pdf) for further staff advice on the risk management process for practical ITD curriculum activities in schools.

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| Plant/Equipment Description:  |
| Teachers/Leaders:  |
| Room Locations:  |
| Assessment Date:  | Review Date:  |

*N.B. This assessment can remain active for up to 5 years. However, an annual monitoring and review process should be undertaken and recorded – refer to the last page of this document.*

*Below are the details of the manufacturing or production processes attributed to this item of equipment categorised by their assessed inherent risk levels (refer to the Equipment/Process Risk Matrix). The actions required for approval for each level of inherent risk are mandatory.*

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| --- | --- | --- |
| **Inherent Risk Level** | **Details of Processes** |  **Action Required/Approval** |
| 🗹 | **Medium** | * Only when the specific use of a jackhammer is included in a senior ITD curriculum, and only when students are under the appropriate supervision of an ITD teacher.
* When it can be assured that the jackhammer is used correctly and carefully for the purposes for which it was designed.
* When used in projects such as the breaking down of rocks, concrete pavements and heavily compacted ground surfaces, building demolition and setting structural foundations.
* **NB:** It is recommended that junior students DO NOT have access to this machinery.
 | * Document controls in planning documents and/or complete this *Plant Risk Assessment*.
* Consider obtaining parental permission.
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| 🗹 | **High** | * When students are NOT always under the supervision of a qualified ITD teacher.
 | * A *Plant Risk Assessment* is required to be completed.
* Principal or Classified Officer (i.e. DP, HOD, HOC, HOSES) approval prior to conducting this activity is required.
* Obtaining parental permission is recommended.
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Minimum standards

| Minimum qualifications and experience *Listed below are the general “minimum” recommendations for the management of this Plant/Equipment.*🗹 *Indicate the minimum management controls.*  |
| --- |
|  [ ]  Registered teachers with experience, ability and competency in the safe use of this plant/equipment  *(indicate one or more of the following):*[ ]  Specific knowledge of the safe and correct use of this plant/equipment[ ]  Experience (i.e. previous involvement and familiarity) in the safe use of this plant/equipment[ ]  Demonstrated expertise, ability and competency with this plant/equipment[ ]  Documented qualifications relating to the use of this plant/equipment (e.g. in a staff profile) **OR** [ ]  An adult staff member or leader, other than a registered teacher, with:[ ]  Expertise in the safe and correct use of this plant/equipment[ ]  Documented qualifications that demonstrate experience, ability and competency in the safe use of this plant/equipment. |
|  [ ]  Will any ITD staff require initial and/or ongoing training for the safe use of this plant/equipment?If yes, give details:  |
|  [ ]  Will students be operating this plant/equipment?If yes, state how student use of this plant/equipment will be managed (e.g. Workshop Safety Induction)Give details:  |
|  Further information if required:  |
|  |
|  Minimum control requirements  |
|  Supporting documentation available in the school on this plant/equipment includes: [ ]  Operators Manual[ ]  Safe Operating Procedures (SOP)[ ]  Equipment Maintenance Records (EMR)[ ]  A process for recording student safety induction e.g. Student induction register [ ]  A process for recording staff training and experience, e.g. ITD Staff induction register |
|  [ ]  All guards are in place and in good working order for this plant/equipment  |
|  [ ]  Safe Working Zones are defined for this plant/equipment (e.g. yellow lines and/or appropriate signage)  |
|  [ ]  Suitable personal protective equipment (PPE) is available to be used by all operators |
|  [ ]  This plant/equipment complies with relevant safety standards |
|  Further information if required:  |

Hazards and control measures

*Listed below are indicative hazards/risks and suggested control measures. These are by no means exhaustive lists. Add details of any other hazards/risks or additional controls you intend to implement.*

🗹 *Indicate the control measures adopted. Detail their implementation and any additional controls required.*

| **Hazards/Risks** | **Hierarchy of Recommended** **Control Measures** | **Yes** | **No** | **Details of how this will be implemented***(and any additional controls)* |
| --- | --- | --- | --- | --- |
| **Exposure to Rotating****or Moving Parts:*** **Entanglement and**

**Entrapment**Could hair, clothing, ties, jewellery or other materials become entangled with moving parts of plant or materials in motion?* **Crushing and Pinching**

Could anyone be crushed or pinched due to falling, uncontrolled or unexpected movement of plant or its load tipping or rolling over, or contact with moving parts during testing, inspection or maintenance?* **Cutting, Stabbing and Puncturing**

Can anyone be cut, stabbed or punctured by coming into contact with moving plant or parts, or objects such as ejected work pieces or waste? | 1. Where possible, potentially hazardous tools including jackhammers are substituted or replaced with less hazardous alternatives.
 | [ ]  | [ ]  |  |
| 1. All necessary guards and safety devices are in place protecting workers from all moving and rotating parts.
 | [ ]  | [ ]  |  |
| 1. Staff and student training is provided to minimise exposure to these hazards and risks.
 | [ ]  | [ ]  |  |
| 1. Safe operating procedures (SOPs) are available and clearly displayed.
 | [ ]  | [ ]  |  |
| 1. Warning “Danger” tags (or similar) are affixed to all jackhammers under repair or maintenance preventing workers from using the equipment.
 | [ ]  | [ ]  |  |
| 1. “Safe Working Zones” are clearly defined in all work spaces where jackhammers are used.
 | [ ]  | [ ]  |  |
| 1. Operators are required to remove all jewellery, tuck in loose clothing and tie back long hair.
 | [ ]  | [ ]  |  |
| 1. All approved personal protective equipment (PPE) is used where required.
 | [ ]  | [ ]  |  |
| **Slips, Trips, Falls** **and Abrasions:**Can anyone using the plant or in the vicinity of the plant, slip, trip or fall due to the working environment or other factors?e.g. Poor housekeeping, dust on floors, slippery or uneven work surfaces, power cables across work areas causing injuries and abrasions? | 1. Slip resistant flooring is encouraged in workspaces. Regular checks are made for unsafe wear and damage. Inspections are made for any power leads or air hoses, etc.
 | [ ]  | [ ]  |  |
| 1. Procedures are in place (where possible) for the disposal of all waste materials around all workspaces where all jackhammer activities are to be performed.
 | [ ]  | [ ]  |  |
| 1. Staff training is provided to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |
| **Environmental:*** **Noise**

Is it likely that the normal operation of this plant will produce excessive noise levels?* **Dust, Fumes and**

**Vapours**Is it likely there will be airborne dust particles, toxic fumes or volatile vapours produced and therefore be present in the workspace?* **Vibration**

Is the normal operation of this plant likely to create severe or excess vibration that could be transferable to the operator? | 1. All portable jackhammers are regularly maintained to help minimise the risk of exposures to these hazards.
 | [ ]  | [ ]  |  |
| 1. All portable power tool maintenance is documented.
 | [ ]  | [ ]  |  |
| 1. Exposure to noisy ITD workshop environments is monitored and evaluated regularly for all workers.
 | [ ]  | [ ]  |  |
| 1. Engineering controls (or physical changes) such as mandatory machinery guarding or any protective safety screens and enclosures are in place in all workspaces and all in good working condition.
 | [ ]  | [ ]  |  |
| 1. Staff and student training is provided to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |
| 1. All approved personal protective equipment (PPE) is used where required.
 | [ ]  | [ ]  |  |
| **Electrical:**Can the operator be injured by electrical shock due to working near or contacting with damaged or poorly maintained live electrical conductors such as power outlets, extension leads, safety switches, starters and isolators or casual water on the floor near plant and machinery?  | 1. Visually checks are made of all portable jackhammers, both cordless and powered, their electrical switches, plugs, power leads and battery chargers, etc.
 | [ ]  | [ ]  |  |
| 1. Electrical safety inspections, testing and tagging, etc. are completed regularly as per guidelines for all portable power tools.
 | [ ]  | [ ]  |  |
| 1. Warning “Danger” tags (or similar) are affixed to all portable jackhammers under repair or maintenance preventing workers from using them.
 | [ ]  | [ ]  |  |
| **Exposure:*** **Friction**

Is the plant likely to generate heat by friction? Could the plant operator accidentally come into contact with moving materials or machinery components resulting in friction burns to the skin, particularly hands? | 1. Portable jackhammers are regularly maintained to help minimise the risk of exposures to these hazards.
 | [ ]  | [ ]  |  |
| 1. All portable power tools maintenance is documented.
 | [ ]  | [ ]  |  |
| 1. Staff and student training is provided to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |
| 1. All approved personal protective equipment (PPE) is used where required.
 | [ ]  | [ ]  |  |
| **Ergonomics and****Manual Handling:**Can the plant be safely operated, in a suitable location, providing clear and unobstructed access? Poorly designed work stations often necessitate teachers and students performing manual tasks involving heavy lifting and lowering, pushing, pulling or carrying, etc. Such tasks then contribute to a range of musculoskeletal sprains and strains for workers.  | 1. Where possible, practical work benches are planned and adjusted to a comfortable work height thus minimising any unsafe or excessively strenuous manual tasks.
 | [ ]  | [ ]  |  |
| 1. Sufficient workspace is provided in all practical classrooms to help ensure unobstructed, safe operation.
 | [ ]  | [ ]  |  |
| 1. Staff training is provided with regard to manual handling techniques and procedures to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |

| **Other Hazards/Risks** | **Additional Control Measures***These would relate to the specific student needs, locations and conditions in which you are conducting your activity.* |
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| **Approval** |
| Submitted by:       | Date:       |
| **[ ]**  | Approved as submitted. |
| **[ ]**  | Approved with the following condition(s):      |
| **[ ]**  | Not Approved for the following reason(s):      |
| By:       | Designation:       |
| Signed: | Date:        |

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| ITD staff members involved in the use of this risk assessment & the associated plant & equipment: |
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 | *Signature:*  ……………………………….. *Date:**Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:* *Signature:*  ……………………………….. *Date:*  |

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| **Monitoring and Review***This Plant and Equipment Risk Assessment is to be monitored and reviewed annually for a further four (4) years.* |

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| **Review 1:** | **Yes**  | **No** |
| * Are allocated risk levels and “Actions required” unchanged over the past 12 months?
* Are Minimum Standards and Recommended Control Measures unchanged over 12 months?
* ITD staffing details at this school have remained unchanged over the past 12 months?
 | [ ] [ ] [ ]  | [ ] [ ] [ ]  |
| If the responses are “NO” for any question, record current details here, and list all staff changes *(with signatures)* |
| Reviewed by:  | Designation:  |
| Signed: | Review Date :  |

|  |  |  |
| --- | --- | --- |
| **Review 2:** | **Yes**  | **No** |
| * Are allocated risk levels and “Actions required” unchanged over the past 12 months?
* Are Minimum Standards and Recommended Control Measures unchanged over 12 months?
* ITD staffing details at this school have remained unchanged over the past 12 months?
 | [ ] [ ] [ ]  | [ ] [ ] [ ]  |
| If the responses are “NO” for any question, record current details here, and list all staff changes *(with signatures)* |
| Reviewed by:  | Designation:  |
| Signed: | Review Date :  |

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| **Review 3:** | **Yes**  | **No** |
| * Are allocated risk levels and “Actions required” unchanged over the past 12 months?
* Are Minimum Standards and Recommended Control Measures unchanged over 12 months?
* ITD staffing details at this school have remained unchanged over the past 12 months?
 | [ ] [ ] [ ]  | [ ] [ ] [ ]  |
| If the responses are “NO” for any question, record current details here, and list all staff changes *(with signatures)* |
| Reviewed by:  | Designation:  |
| Signed: | Review Date :  |

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| **Review 4:** | **Yes**  | **No** |
| * Are allocated risk levels and “Actions required” unchanged over the past 12 months?
* Are Minimum Standards and Recommended Control Measures unchanged over 12 months?
* ITD staffing details at this school have remained unchanged over the past 12 months?
 | [ ] [ ] [ ]  | [ ] [ ] [ ]  |
| If the responses are “NO” for any question, record current details here, and list all staff changes *(with signatures)* |
| Reviewed by:  | Designation:  |
| Signed: | Review Date :  |