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

**NAILING GUNS***(Battery or Gas – various models)*

## Battery Nail Gun.jpgBattery Nail Gun (small).jpgScope

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.*

|  |  |  |
| --- | --- | --- |
| **Inherent Risk Level** | **Details of Processes** |  **Action Required/Approval** |
| 🗹 | **Medium** | * When the operator is the only worker in the immediate vicinity.
* When working in a downward direction onto the object being nailed.
* When students are under the appropriate supervision of a qualified ITD teacher.
 | * Document controls in planning documents and/or complete this *Plant Risk Assessment*.
* Consider obtaining parental permission.
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| 🗹 | **High** | * When other activities are being conducted in the area at the same time.
* When working at elevation on steps, ladders or scaffolding.
* When working in a horizontal position and at difficult angles.
 | * 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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| 🗹 | **Extreme** | * When working in confined spaces where accidental contact with the actuation muzzle is high.
* When students are NOT always under the supervision of a qualified ITD teacher.
 | * Consider alternatives to using the plant/equipment.
* A *Plant Risk Assessment* is required to be completed.
* Principal approval prior to conducting this activity is required.
* Parental permission must be obtained for student participation.
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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?* **Striking**

Could anyone be struck by moving objects such as the work piece being ejected, or by the unexpected or uncontrolled movement of the plant or work piece? * **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 piece or waste? | 1. Where possible, potentially hazardous portable cordless power tools, including all battery/gas nailing guns are substituted or replaced with less hazardous alternatives.
 | [ ]  | [ ]  |  |
| 1. All necessary guards and safety devices are in place protecting workers from all moving parts and projected nails.
 | [ ]  | [ ]  |  |
| 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 cordless stapling and finishing nail guns under repair or maintenance preventing workers from using the equipment.
 | [ ]  | [ ]  |  |
| 1. “Safe Working Zones” are clearly defined. Where practical, nail and staple gun operations are isolated away from other work activities.
 | [ ]  | [ ]  |  |
| 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. Regular checks are made for unsafe wear and damage. Inspections are made for any power leads or hoses, etc.
 | [ ]  | [ ]  |  |
| 1. Procedures are in place for the disposal of all waste materials around areas where the nail gun might be used.
 | [ ]  | [ ]  |  |
| 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 mechanical vibration that could be transferable to the operator? | 1. All portable cordless battery/gas nail guns are regularly maintained to help minimise the risk of exposures to these hazards.
 | [ ]  | [ ]  |  |
| 1. All portable cordless power tool maintenance is documented.
 | [ ]  | [ ]  |  |
| 1. Exposure to noisy ITD workshop environments is monitored and evaluated.
 | [ ]  | [ ]  |  |
| 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 cordless battery/gas nail guns, 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 cordless power tools.
 | [ ]  | [ ]  |  |
| 1. Warning “Danger” tags (or similar) are affixed to all cordless nail guns under repair or maintenance preventing workers from using them.
 | [ ]  | [ ]  |  |
| 1. Electrical maintenance on all portable power tools is documented.
 | [ ]  | [ ]  |  |
| **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 cordless battery/gas nail guns are regularly maintained to help minimise the risk of exposures to these hazards.
 | [ ]  | [ ]  |  |
| 1. All portable cordless power tools maintenance is documented.
 | [ ]  | [ ]  |  |
| 1. Staff and student training is provided to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |
| 1. “Safe Working Zones” are clearly defined. Where practical, nail and staple gun operations are isolated away from other work activities.
 | [ ]  | [ ]  |  |
| 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. Floors are regularly cleaned and free of excessive waste materials and other extraneous objects.
 | [ ]  | [ ]  |  |
| 1. Staff training is provided with regard to manual handling techniques and procedures to minimise exposure to these hazards.
 | [ ]  | [ ]  |  |
| **Explosion and Fire:**As a consequence of using this particular item of plant and equipment, could anyone be injured by the release of stored energy triggered by volatile, explosive substances such as stored gasses, vapours or liquids?  | 1. Fire extinguishers of the correct type are readily available in all workspaces and positioned near exit doorways.
 | [ ]  | [ ]  |  |
| 1. Staff training is provided regarding procedures for the correct and appropriate use of fire safety equipment.
 | [ ]  | [ ]  |  |
| 1. Exits from buildings and other work areas are defined and access to them kept clear of obstructions.
 | [ ]  | [ ]  |  |
| 1. Safety signage is posted clearly denoting the location of all fire safety items and emergency exits.
 | [ ]  | [ ]  |  |

| **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 and the associated plant and 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 :  |

|  |  |  |
| --- | --- | --- |
| **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 :  |