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| ***Portable_Plant_SOP***  🗹 | | |
| ***Students must complete the checklist below with a tick in every box before operating this portable power equipment*** | | |
| **Has your teacher given you instruction on the safe use and operation of this equipment?** | | **🗆** |
|  | | |
| **Has your teacher given permission for you to use this equipment?** | | **🗆** |
|  | Are you wearing approved safety glasses?  . | **🗆** |
| Foot Protection circle | Are you wearing protective footwear with substantial uppers?  . | **🗆** |
|  | Are you wearing a suitable protective workshop apron? | **🗆** |
| **Have you read the important information section on the reverse?** | | **🗆** |
| **PRE-OPERATIONAL SAFETY CHECKS** | |  |
| 1. Is your work area suitable and safe? | | **🗆** |
| 1. Are all safety guards serviceable and in place? | | **🗆** |
| 1. Is the blow forming table in good general condition? | | **🗆** |
| 1. Are all air connections secure? | | **🗆** |
| 1. Are all clamping arrangements adequate, secure and correctly adjusted? | | **🗆** |
| 1. Are you only using low air pressures – 105-140kPa? | | **🗆** |
| 1. Has your teacher checked all adjustments i.e. heat settings and air pressures, before attempting to blow mould (or blow form) your article? | | **🗆** |
| 1. Is there adequate dust and fume ventilation or extraction? | | **🗆** |

Paste pages 1 and 2 back to back – cut out this section – laminate and trim to size

Blow Moulder

**BLOW MOULDER**

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| ***Portable_Plant_SOP***  **BLOW MOULDER**  **Air Compressor** |
| **Important information – read before use** |
| **OPERATIONAL SAFETY CHECKS** |
| **DO NOT use faulty equipment – report this immediately to your teacher** |
| 1. Take particular care when blow moulding very hot thermoplastic materials. High air pressures are also used in this forming process. 2. Familiarise yourself with all machine operations and controls. If in doubt, ask for assistance. 3. Pre-heat the blow moulder to be sure the machine has reached the required temperature. Always handle heated plastic material with suitable cotton gloves. 4. Moulds and forming jigs must be constructed sturdily enough to withstand high heat and pressure. 5. Before applying the air pressure to the heated plastic material, clamp the forming ring, restraining bars and plates securely to the table. 6. Ensure that the air pressure is reduced to zero before releasing the clamping arrangements. 7. Never apply excessive air pressure to a heated plastic article as it may rupture. 8. Never attempt to form plastic material that has not been pre-heated to the correct forming temperature. 9. Do not use the compressed air to cool down an article or to clean down the work area. |
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| **CAUTION – high air pressure and heated plastics** |
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| **HOUSEKEEPING** |
| 1. Ensure all switches, guards and surfaces are cleaned. 2. Leave the work area in a safe, clean and tidy condition. |
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| **POTENTIAL HAZARDS** |
| ◼ Hot machine parts ◼ Electricity ◼ Eye injuries  ◼ Dust ◼ Pinch and squash ◼ Compressed air  ◼ Eye injuries |

**Date of last review:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_