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| G:\6100_Performance_HR\6555 - Organisational Safety and Wellbeing\2. HSW - Systems and Strategy Team\Rebadging OSW Documents (Kristyn)\ITD logos\Updated 2018\Welding_word_banner_SOP.jpg  **PLASMA CUTTER** |
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| **DO NOT** use this equipment unless a teacher has instructed you in its safe use and operation and has given permission |

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| Approved safety glasses must be worn at all times in addition to a welding helmet. | Hair Protection circleLong and loose hair must be contained or restrained. |
| Foot Protection circleAppropriate protective footwear with substantial uppers must be worn. | ApronProtective overalls or leather apron must be worn. |
| Welding Mask circleProtective welding helmet with correct grade UV and IR lens must be worn | Hand Protection circleOil free leather gloves must be worn when using this equipment. |
| Respiratory protection may be required | Hearing Protection circleHearing protection must be worn when noise levels are excessive. |
| Prohibition circleRings and jewellery must not be worn. | Pacemaker caution sign02 |
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### **PRE-OPERATIONAL SAFETY CHECKS**

1. **Check workspace and walkways to ensure that no slip/trip hazards are present.**
2. **Check work area is clean and free of grease, oil and flammable material.**
3. **Ensure the equipment and work area is dry to avoid electric shocks.**
4. **Check gloves, welding gun and work leads are in good condition.**
5. **Examine the material to see if it is to be cut free from hazards.**
6. **Ensure the fume extractor unit is on before welding commences.**
7. **Close the welding bay curtains to ensure the protection of others from flashes.**

**DO NOT** use faulty equipment – report this immediately to your teacher.

OPERATIONAL SAFETY CHECKS

1. **Ensure machine is correctly set up for current, voltage, wire feed and gas flow.**
2. **Ensure work return cables make firm contact to provide a good electrical connection.**
3. **Metals coated with or containing materials that emit toxic fumes should not be heated or cut unless coating is removed from the work surface.**
4. **Do not weld or cut containers that have held combustible liquids or gases.**
5. **Never leave the plasma cutter running unattended.**

HOUSEKEEPING

1. **Switch off the machine and fume extraction (where used).**
2. **Turn off air supply and hang up handpiece, hose and welding cables.**
3. **Leave the work area in a safe, clean and tidy state.**

#### POTENTIAL HAZARDS

* **Electric shock ◼ Radiation burns ◼ Body burns ◼ Noxious gas**
* **Noise ◼ Compressed air ◼ Fume ◼ Flying sparks and falling dross**

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