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| ***Portable_Plant_SOP***  **ANGLE GRINDER (cordless)** | |
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| **DO NOT** use this machine unless a teacher has instructed you in its safe use and operation and has given permission | |
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| Approved safety glasses and face shield must be worn at all times in all ITD spaces. | Hearing protection *(Class 5 – SLC80 >26 dB)* *must* be worn at all times. |
| Foot Protection circleAppropriate protective footwear with substantial uppers must be worn in all ITD spaces. | Wear close fitting protective clothing, overalls, leather gloves, etc. |
| A dust mask *should* be worn when excessive airborne dust or fumes are created. | Contain or restrain long and loose hair and remove exposed rings or jewellery. |

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

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### **PRE-OPERATIONAL SAFETY CHECKS**

1. **Ensure you have a suitable, safe work area free of slip/trip hazards and flammable materials.**
2. **If changing a grinding disc, check for appropriateness and arbor hole size.**
3. **Inspect the grinding disc for chips and cracks.**
4. **Ensure all guards are in place and in good working order.**
5. **Check that the grinding disc guarding covers half of the rotating disc.**
6. **Familiarise yourself with the ON/OFF switch.**

#### OPERATIONAL SAFETY CHECKS

1. **Fit the battery only after all grinding disc adjustments have been made.**
2. **Do not fit a grinding disc that has been dropped, damaged or become wet at any stage.**
3. **Ensure your work piece is secured and supported.**
4. **Keep fingers, hands and clothing clear of the disc.**
5. **Use the grinder only in a designated work area – preferably behind a portable screen.**
6. **Be aware of flying hot sparks. Hold the grinder so that any sparks fly away from you and anyone nearby, and away from all flammable materials.**
7. **Allow the grinder to reach operating speed, then apply load gradually. Maintain a constant pace to avoid uneven surfaces.**
8. **Maintain complete control. Always operate with both hands. Keep a proper and steady footing at all times.**
9. **Do not apply excessive force and avoid prolonged use.**
10. **Grinder will not operate if the battery charge is too low.**
11. **Violent kickback can occur, particularly when cutting.**
12. **Leather gloves must be worn when handling hot metal.**
13. **Turn off after use. Do not place the grinder down until the disc has stopped rotating.**

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| **CAUTION: serious injuries can be caused by kickback** |

#### HOUSEKEEPING

1. **Return the grinder to storage and remove the battery for recharging.**
2. **Leave the work area in a safe, clean and tidy condition.**

## POTENTIAL HAZARDS

* + **Rotating, sharp parts ◼ Electricity ◼ Noise**
  + **Pinch and squash ◼ Dust and fumes ◼ Eye injuries**
  + **Burns and hot ejected waste material**

## FORBIDDEN

* + **Never grind where hot sparks can accidentally be directed toward people or flammable materials.**

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