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| **SAFE OPERATING PROCEDURE**  **3D PRINTER** | |
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| **DO NOT** use this machine unless you have completed an induction and the Supervisor has given permission | |
|  | |
| Safety glasses must be worn at all times. | Hair Protection circleLong and loose hair must be contained or restrained. |
| Dust mask sign**Prohibition circle**A mask must be worn when excessive airborne dust or toxic vapours are created. | Foot Protection circleAppropriate footwear with substantial uppers must be worn. |

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

1. **Ensure you are familiar with CNC software functionality.**
2. **Locate & ensure you are familiar with the operation of the ON/OFF and emergency stop controls.**
3. **Ensure that front guard door and safety devices are in position and secured.**
4. **Ensure that the mill cutter bit size and profile conforms to specifications. This machine must be isolated while any adjustments are made to the milling head or tool cradle.**
5. **Ensure all cutters are sharp and free of build up or wear.**
6. **Adjust the waste collector shroud (where fitted) correctly for maximum efficiency.**
7. **Be aware of any other personnel in the immediate vicinity and ensure the area is clear before using this equipment.**
8. **Have all setting checked by the Supervisor before using the machine.**

#### OPERATIONAL SAFETY CHECKS

1. **Never attempt to program this CNC machine without proper training.**
2. **Confirm all CNC programming instructions for the mill.**
3. **Ensure that the material work piece is secured before milling.**
4. **Never leave the CNC mill in operational mode while unattended.**

#### HOUSEKEEPING

1. **On completion, isolate the switches. Leave the machine in a tidy, clean and safe manner.**

## POTENTIAL HAZARDS

◼ **Impact, pinch and crush points** ◼ **Dusts and fumes** ◼ **Electrical components**

◼ **Entanglement and entrapment** ◼ **Eye injury** ◼ **Control errors**

◼ **Manual handling** ◼ **Failure or malfunction**

This SOP does not necessarily cover all possible hazards associated with the tool and should be used in conjunction with other references. It is designed to be used as an adjunct to teaching Safety Procedures and to act as a reminder to users prior to tool use.

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