SOP (3D PRINTER)

SS-WHS-SAF-000

Authorised By: Rev 1 19/03/2024



TASK	3D Printer					
HAZARDS	Flying debris		Heat / cold	\boxtimes	Electricity	\boxtimes
	Cuts / laceration		Inhalation	\boxtimes	Rollover	
	Pinch / crush	\boxtimes	Noise / vibration		Plant interaction	
	High pressure		Fire	\boxtimes	Other:	
PPE REQUIRED						

PRE-START CHECKS

- 1. Inspect the cut or engraved workpiece for quality and completeness, making any necessary adjustments to the cutting parameters for future reference.
- 2. Clean up the work area, removing any debris or waste material generated.
- 3. Dispose of scrap material and any waste materials such as used protective film or masking tape properly according to company guidelines.
- 4. Perform routine maintenance tasks such as cleaning the lens and mirrors, checking for loose connections, and inspecting the ventilation system.
- 5. Store the laser cutter and accessories in a designated area, ensuring they are protected from damage and unauthorized use.

SAFE OPERATING PROCEDURE

- 1. Wear appropriate personal protective equipment (safety glasses and gloves).
- 2. Load the 3D model file into the printer software and verify the settings before initiating the print.
- 3. Level the build plate or print bed to ensure proper adhesion of the first layer.
- 4. Start the printing process and monitor the operation closely, ensuring that the filament feeds properly and that the print progresses smoothly.
- 5. Investigate any unusual noises, odors, or smoke during printing.
- 6. Avoid opening the printer enclosure or interfering with the print head while the machine is in operation.
- 7. If any issues or errors occur during printing, stop the print immediately and troubleshoot the problem before resuming.
- 8. After printing is complete, remove the finished object from the build plate or print bed carefully to avoid damage.

POST-OPERATION PROCEDURE

- 1. Inspect the printed object for quality and completeness, making any necessary adjustments to the printing parameters for future reference.
- 2. Clean up the print area, removing any stray filament or waste material from the printer and work area.
- 3. Dispose of any unused or excess filament properly according to company policy.
- 4. Perform routine maintenance tasks such as cleaning the print head and build plate, checking for loose connections, and lubricating moving parts.
- 5. Store the 3D printer and accessories in a designated area, ensuring they are protected from damage and unauthorized use.

SS-WHS-SAF-000 SOP (3D PRINTER) (Rev 1 19/03/2024) Page 1 of 1