

## Metal 3D Lab Safety Instructions

Symbol	Risk Category	Safety Precautions
	Slip, trip and fall	The entire lab floor must be kept dry from water, oil and any other liquid at all time to prevent slip, trip and fall
	Health Hazard <ul style="list-style-type: none"> <li>- Toxic materials</li> <li>- Lack of required PPE</li> <li>- Cut and bruises</li> </ul>	The work area might contain toxic nano particles of metal alloy. <b>ALWAYS</b> use required <b>PPE</b> including <b>anti-static</b> shoes while working on the machines. Beware of sharp surfaces from the equipment and printed metal parts
	Electric shock	Beware of all electrical outlets to prevent electric shock. Do not touch electrical outlets/units with wet hands
	Water/gas leakage	Report any possible water or gas leakage immediately to the janitor on tel. <b>0207663476</b>
	Compressed gas	Beware of pressure from compressed gas. Air (6 bar) and Argon/Nitrogen (17 bar)
	Hot Surface	Do not touch hot surfaces. Risk of severe burn and permanent personal injury
	Laser Radiation Hazard	Beware of <b>Class 4</b> radiation from the metal 3D printer machine
	Heavy objects	Beware of heavy objects hitting foot. Wear required PPE at all time. Possible back and shoulder pain from lifting heavy objects
	Fire Hazard	Ensure room is well ventilated, nano particles filtered, all equipment/lightings are switched off if not in use. <b>Use appropriate fire extinguishers in case of fire</b> and inform the fire safety department as soon as possible
	Blocked exit	The emergency exit and required pathway within the lab must be kept clear at all time
	Personal Injury/death	Only authorized personnel are allowed to operate the lab equipment. Danger of permanent personal injury/death.
	Explosion hazards	The work area has ATEX rated equipment. Please <b>ALWAYS</b> follow manufacturer's instructions
	Low Oxygen level	In case the Oxygen level red indicator comes on, please open the door for fresh air to come

		into the room and <b>LEAVE</b> the room Immediately
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**NOTE: ONLY AUTHORIZED PERSONNEL ARE ALLOWED TO USE THE EQUIPMENT**

In case of an emergency, please call **112** and follow the instructions given by the rescue personnel via the phone and on the scene. Remember to notify the janitor as well on tel. **0207663476**.

**Street Address:** Technobothnia, Door **F4G**.

For more information, please contact Sulaymon Tajudeen on mobile **0449869937** or via email: **sulaymon.tajudeen@uvasa.fi**.