

What are the hazards and how might they harm?



Damage to eye or skin burns from exposure to laser



Fire caused by accidental ignition of fuel or flammable items



Crush injuries, bruises and abrasions from entanglement



Electric shock or burns from incorrect use or damaged/faulty equipment



Burns/scalds from contact hot surfaces

What PPE should the individual wear?



What other precautions should be taken?



Ensure the area is well ventilated

Model of laser engraver used

Laser engravers

Safety Task Card
STCGE 66

Unit Managers – use page overleaf to list any hazards and control measures specific to your site which are not listed below

Safe System of Work

1. Only use the equipment if you have received training specifically for the laser engraver being used.
2. The equipment must be located on a stable surface, with sufficient space and so that security features, including the emergency stop and safety lock are accessible.
3. Keep the area around equipment free from flammable and combustible items.
4. Visually inspect equipment before use and do not use if any damage evident.
5. Sufficient ventilation must be available and where materials such as PVC are being engraved mechanical ventilation must be switched on.
6. Only engrave suitable materials, as per the manufacturer's instructions.
7. Safety goggles must be worn to prevent damage to eyes from the laser.
8. Place the workpiece securely on the work surface and fit the protective plate (aluminium or stainless-steel tray) if required.
9. Keep hand away from moving parts while equipment is in operation.
10. Monitor the equipment for unexpected smoke, movement, noise, flames or any other fault indication. Stop the job immediately if any unsafe condition develops and do not use until the cause of the incident has been identified and rectified.
11. Never leave equipment unattended while it is in use.
12. Allow the workpiece to cool before handling or removing it.

Continued on reverse

If you have any concerns, stop and speak with your line manager before proceeding.

List any additional hazards or risks you have identified, and control measures required to manage these.

Laser engravers continued

Safety Task Card
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Safe System of Work

13. Turn equipment off and isolate it from the power source before carrying out any cleaning or maintenance.
14. Regularly remove dust, debris and residue from equipment to prevent contamination and fire load.
15. Use only a dry cloth to clean areas such as the tripod, laser module and surrounding area.
16. Do not attempt any repairs; these must be completed by a competent person.
17. Direct exposure as well as reflected beams can cause damage to the eye and skin exposure can result in burns. If anyone is subjected to the laser, they must seek medical attention immediately.

If you have any concerns, stop and speak with your line manager before proceeding.