

Risk Assessment - Soldering Area <#007>

Risk Assessment performed on behalf of Leicester Hackspace Ltd 08833126

This risk assessment is intended to provide guidance on the risk associated with the above equipment and activities in normal use. Please also check general risk assessments for the space as a whole. Any discrepancies, errors or concerns should be raised with the document maintainers or the directors - do not edit this assessment directly. For responsible persons and last update, see below.

Activity

Soldering

Lab Equipment



Wear Eye Protection



Read Instruction Manual



Ensure Adequate Ventilation



Induction Required



Warning
Fire risk



Caution
Hot



Warning
Harmful fumes

Created by	Signed	Date
Jacob Lucas		09/08/2026
Reviewed By	Signed	Date
Brett Howard		
Director sign-off	Signed	Date
Sophie Hopkins	SL Hopkins	21/10/2026
Date released	Last reviewed	Next review
29/10/26	-	October 2026

#	Identify Hazards	Risk	Who may be harmed	Severity	Control Measures	Likelihood	Risk Rating
1	Electricity	Users risk burns or shock from equipment use	User	High	All electrical equipment should be checked for electrical safety prior to use. Equipment must not be used unless they have a PAT test label on. It is the users responsibility to do a visual check of the equipment. If any defects are found (i.e. cracked casing, defect in lead etc) the equipment is not to be used, to be quarantined, safety officer informed, and a defect label attached. Induction covers inspection of equipment before usage	Low	Med
2	Misuse of equipment	Damage to user or equipment	User, Bystander	Med	Members are inducted into the correct use of the equipment and understand associated risks. Members found to be deliberately misusing equipment may have their use of the equipment restricted or revoked altogether.	Med	Low
3	Rosin core Solder Flux paste	Fume Inhalation	User, Bystander	Low	A fume extractor inlet is provided on each station, that takes the fumes to a filter. Fume extractor is always powered whilst the soldering equipment has power. Do not use the soldering area if the fume extractor is inoperative	High	Low
4	Leaded Solder	Lead exposure	User	Low	Members are required to wash hands after using equipment. Food is strictly prohibited inside the soldering area. Induction covers rules	Med	Low
5	Soldering Irons Hot Air Station Hot Plate	Minor Burns	User	High	An enclosed cradle is provided for stowing all the handheld equipment in between uses while soldering. Induction specifies correct usage of hotplate and soldering iron. A burn kit is available in kitchen area. Induction covers safe storage of equipment	Med	Low
6	Spitting Solder, Cutting Component Legs	Damage to Eyes	User	High	Goggles must be worn whilst using the station. Induction covers usage and location of goggles	Low	Low
7	Loose Hair/Clothing	Clothes/Hair catching Fire/Melting Knocking hot equipment out of their station/workspace	User	Med	Members are required to tie hair back whilst using the station. Members are not permitted to use the soldering area in loose fitting clothing. Induction covers correct attire in the soldering area	Med	Med
9	Overcrowding	Contact with hot equipment Knocking hot equipment out of their station/workspace	User, Bystander	Med	There is a maximum of 3 people in the soldering area. Induction covers space limits	Low	Low
10	Hot air station	Heat misdirected towards flammable material	Space	High	The handpiece is not to be set down except inside its station. The station must be positioned such that the hot air jet is not pointing towards any flammable material during use. Station detects when the handpiece is placed in its cradle and reduces temperature and blow speed. Induction covers safe usage and storage	Low	Low