

Soldering Irons

Risk assessment

This table outlines the possible risks that users of this tool should bear in mind. The risk rating, likelihood, and severity are all calculated assuming that the listed control measures are followed. If you are uncomfortable with these risks, or are not confident in your ability to use this tool safely, please do not use it.

Risk rating	Likelihood	Severity	Hazard	Who may be harmed & how	Control measures
L	L	L	Burn due to hot-end of soldering iron	<ul style="list-style-type: none"> User - the user may have a minor burn due to the high temperature of the hot-end of the soldering iron 	<ul style="list-style-type: none"> Signage - standard "hot surface" signage is used to indicate the surface may be hot Training - informing the user about how to tell if the soldering iron is currently operating and to avoid touching the hot-end directly. awareness that heat is conducted through metal materials commonly used during soldering. Equipment - first aid kit is available
L	L	H	Fire started due to hot-end of soldering iron	<ul style="list-style-type: none"> The space - the equipment and surrounding area may become damaged from a fire started by a flammable material placed on the hot-end of the soldering iron. User - the user may become injured from a fire by both heat and inhalation of smoke Bystanders - bystanders may become injured by both heat and inhalation of smoke 	<ul style="list-style-type: none"> Signage - standard "hot surface" signage is used to indicate the surface may be hot Training - users are instructed to not leave flammable materials on or around the soldering iron Supervision - hot soldering irons are not left unattended Equipment - fire alarms and extinguishers are installed, first aid kit is available
L	L	M	Hazardous gasses	<ul style="list-style-type: none"> Users of the room - anyone in the room may sustain injury from inhalation or contact with eyes of hazardous gasses produced by soldering substrates 	<ul style="list-style-type: none"> Extraction - an extraction device is used to extract hazardous gasses from work area Training - users are informed about substrates producing hazardous gasses and instructed to use an extraction device and appropriate PPE Equipment - users are required to wear appropriate eye protection, eyewash kit is available

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M	L	H	Heated debris hitting user	<ul style="list-style-type: none">User - some components and substrates may overheat during prolonged contact with the soldering iron and result in a small explosion which may propel hot debris towards the user potentially hitting their eyes or other body parts resulting in loss of or damage to vision or burns	<ul style="list-style-type: none">Training - awareness of heat sensitive components and necessity to solder quickly and carefullyEquipment - users are required to wear appropriate eye protection, eyewash and first aid kits are available