


Risk Assessment – Changing State

Creator/Reviewer of Risk Assessment	Name Ian Snell
	Signature 
Next Review Date	September 2025

Severity	Likelihood	Risk Rating* (S x L)
1 No or Little Harm	1 Unlikely	1-5 Low
2 Minor/First Aid	2 Possible	6-10 Medium
3 Medical Attention	3 Probable	10+ High
4 Hospitalisation	4 Likely	
5 Death/Irreparable Injury	5 Certain	

Science Oxford Risk Assessment			Severity	Likelihood	Risk Rating*
Hazard	Risk	Control Measures			
Heating with flame	Participants Burns/scalding	<ul style="list-style-type: none"> • Instructions given for appropriate use • If considered appropriate, children will be in charge of their own lighters. Appropriate warnings and instructions will be given, and increased vigilance will be necessary. If not appropriate for a particular class, additional adult volunteers will be required. • The following parts will get hot: stand, cases, contents, lamp. Do not touch them. Use the peg to move case. Hold case with the peg before stirring. Use a wooden stick for stirring. 	3	2	6
	Participants Fuel spills and spreading flame	<ul style="list-style-type: none"> • Sealed "liquid wax" candles are used. Spills are unlikely, but not impossible. Spilt fuel is not flammable itself, but leaks from a lit burner can ignite. • Heat-proof tiles should always be used • Presenter and volunteers should always be monitoring burners, and extinguish if safe, or move participants away if necessary. (But see below during COVID-19) • Visual inspection of burners before and after every session 	3	1	3
Heating liquids	Participants "Spitting" of hot liquid	<ul style="list-style-type: none"> • Very small amounts of liquid heated at a time. • Safety goggles to be worn when heating • Adults to be asked to ensure goggles are always worn 	3	1	3
Heating solder	Participants Fumes may irritate nose and throat, eyes. Flux may spit	<ul style="list-style-type: none"> • Only lead-free solder to be used. • Ensure adequate ventilation of room. • Only very small pieces of solder are heated. • No more than one or two pieces should be used by each pair. • Safety goggles to be worn. 	2	1	2

Please use this risk assessment in conjunction with your own prior assessments and dynamic management of risk.

