Equipment / Activity / Area being assessed	CSI Session – Hands on experiments station led by Dr Randle. Verbal and written instructions provided.	**Risk Assessment ID**	RA001 v5/8/25
Location	Guiding & scouting venues / party venue / schools		
Who is exposed?	Uniformed organisations, School groups, general public, Dr Randle, supervising adults		
Date of assessment	5/8/25		
Assessor's name	Dr Laura Randle		
Risk = Likelihood of injury x Severity of injury	R = L x S	Low risk = 0 – 6	Medium risk = 7 - 12	High risk = 13 - 25

L = Likelihood	**S = Severity of injury**					
	No injury or illness (0)	**Minor injury or illness (1)**	**First aid injury or illness (2)**	**"3 day" injury or illness (3)**	**Major injury or illness (4)**	**Fatality, disabling injury, etc (5)**
Zero to very low (0)	0 = Low	0 = Low	0 = Low	0 = Low	0 = Low	0 = Low
Very unlikely (1)	0 = Low	1 = Low	2 = Low	3 – Low	4 = Low	5 = Low
Unlikely (2)	0 = Low	2 = Low	4 = Low	6 = Low	8 = Medium	10 = Medium
Likely (3)	0 = Low	3 = Low	6 = Low	9 = Medium	12 = Medium	15 = High
Very likely (4)	0 = Low	4 = Low	8 = Medium	12 = Medium	16 = High	20 = High
Almost certain (5)	0 = Low	5 = Low	10 = Medium	15 = High	20 = High	25 = High

RISK ASSESSMENT

	Activity	**Hazards Identified**	**Risk rating (High, Medium, Low)**	**Control Measures in place to control the risk**	**Risk rating (High, Medium, Low)**
1	**General room set up**	• Trailing cables from computer and props on tables could present trip hazard. • Activity tables set up without chairs.	L =1 S =1 R = 1 Low risk	• Any scenery, props and resources to be set up to minimise hazards • Fire exits to be kept clear at all times. • First aider on site at all times. • Participants are consulted about any possible allergies, gloves are supplied if necessary	L =1 S=1 R = 1 Low risk

				• Parents/guardians/teachers to remain in close supervision of the children in their care at all times.	
2	**Excited participants**	• Children may not listen • Children may run around 'Lab'.	L =4 S=2 R = 6 Low risk	• Instructions provided for each experiment. • Risk assessment provided • Reinforce potions lab rules – no running, no eating or drinking potions, tie hair back, no clothes dangling. • Appropriate supervision	L =3 S=1 R = 3 Low risk
3	***Lifting Fingerprint*** • Dusting picture frame for fingerprints with silver fingerprint powder	• Possible irritation to eyes. • Possible irritation to skin. • Possible inhalation • May cut hand on glass if broken • Possible latex allergy	L =3 S=2 R = 6 Low risk	• Contain spills with damp, inert absorbent material. • Remove glass with sharp edges and advise participants to take care • PPE – avoid latex gloves • Appropriate instructions and supervision.	L =2 S=1 R = 2 Low risk
4	***Taking Exemplar Fingerprint*** • Rolled ink Method using reeves fingerprint paste / pre inked strips.	• Possible irritation to skin. • Possible irritation to eyes.	L =2 S =2 R = 4 Low risk	• Clean hands as soon as possible • Advise those with sensitive skin to avoid use • Use cleansing wipes for sensitive skin • Appropriate instructions and supervision.	L = 2 S = 1 R = 2 Low risk
5	***Hair and Fibre Analysis*** • Collect fibres/ hairs and observe under the microscope	• May cut hand on broken microscope slide. • Trailing cables from microscope. • Electric shock from equipment	L =3 S = 3 R = 9 Medium risk	• Remove broken glass with sharp edges & advise participants to take care. • Electrical equipment is PAT tested. • Damaged equipment reported and taken out-of-use. On discovering a problem immediately place a do not use sign on the equipment and unplug the unit so that no other user will attempt to use the equipment. • Appropriate instructions and supervision. • Dust pans and brushes are provided to safely clean any broken slides. • Management of trailing leads and cables.	L = 1 S = 2 R = 2 Low risk

6	***Presumptive blood test*** Confirming the presence of blood in a dried red stain using Kastle–Meyer test Non-hazardous samples: ● Simulated blood ● Red poster paint ● Red Food Colouring ● Ketchup	● Possible Irritant to eyes and skin ● May be harmful if swallowed	L =3 S=3 R = 9 Medium risk	● PPE – gloves, goggles ● Contain spills with inert absorbent material ● Limit exposure ● Work on a tray ● Appropriate instructions and supervision.	L = 2 S = 2 R = 4 Low risk
7	***Blood Splatter Analysis*** Calculating speed and direction of non hazardous simulated blood splatter.	● Possible slip hazard ● May cut hand on glass dropper bottle if broken ●	L =3 S = 1 R = 3 Low risk	● Appropriate instructions and supervision. ● Contain spills with inert absorbent material ● Use plastic dropper bottles	L = 1 S = 1 R = 1 Low risk
8	***Facial reconstruction*** Sculpt the victims face using plasticine and a model skull	● Possible injury from broken clay sculpting tools ● Possible ingestion, inhalation of plasticine	L =1 S =1 R = 1 Low risk	● Appropriate instructions and supervision. ● Plasticine considered non toxic ● Remove broken tools	L =0 S = 0 R = 0 Low risk
9	***DNA electrophoresis***	● Possible irritation to eyes. ● Possible irritation to skin. ● Possible inhalation ● Possible slip Hazard due to spillages ● Electric shock from equipment ●	L = 3 S = 2 R = 6 Low risk	● PPE – gloves, goggles ● Wash hands after use ● Contain spills with inert absorbent material ● Appropriate instructions and supervision.	L = 1 S = 2 R = 2 Low risk
10	***Facial reconstruction*** Using efit software on computer	● Electric shock from equipment	L = 2 S = 2 R = 4 Low risk	● Appropriate instructions and supervision. ● PAT tested equipment.	L = 1 S = 2 R = 2 Low risk

COSHH ASSESSMENT in consultation with CLEAPSS (CLP *Hazcards*, 2016 Edition, and later updates)

Hazardous Substance	Hazard Type	State S/L/G	Quantity used	Exposure	Controls and Precautions	Disposal route, Spillage procedure Emergency procedures
Fingerprint Ink	Considered non-hazardous May stain skin	Liquid	<1mL	*Frequency:* 1-5 times / day *Duration: 6-10 min*		● Disposal – Solid in household waste. Liquid rinse down foul water drain. ● Spillage: absorb spill, scrub with detergent, ventilate area and eliminate ignition sources. ● Storage - Tightly closed container ● Eye: through rinse 15-20 min ● Inhalation: in cases of respiratory irritation – remove to fresh air ● Ingestion: dilute with milk / water, do not induce vomiting. If symptoms persist consult medical advice.
Fingerprint powder (Silver) (Aluminium powder)	Danger CLEAPPS 1A	Solid	<1g	*Frequency:* 1-5 times / day *Duration:* 6-10 min 10 mg m^3 (LTEL), 30 mg m^3 (STEL) as inhalable dust	● Wear Eye protection ● Gloves ● Avoid naked flames ● Avoid raising dust. ● Dust mask in confined or poorly ventilates spaces.	● Storage - Tightly closed container. Do not store with acids , alkalis or oxidizing agents. ● Disposal: <10g/L 2M HCl – ensure reaction remains acidic, upon completion can be poured down a foul water drain. > 10g requires disposal via thermite registered waste carrier. ● In case of fire use sand/ rockwool. DO NOT use water / foam. Water can liberate hydrogen. ● Inhalation: Fresh air ● Eye contact: Rinse opened eye for several minutes with running water. ● Skin contact: Wash immediately with plenty of soap and water. ● IF SWALLOWED: rinse mouth, seek medical advice ● Spillage: sweep up and put in a dry receptacle.
Hand sanitizer gel	Flammable Irritant	Liquid	<5mL	*Frequency:* 1-5 times / day *Duration:* 1-5min	● Keep away from heat.	● Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

						• Skin contact: Wash immediately with plenty of soap and water. • Ingestion: rinse mouth. Do NOT induce vomiting. Immediately seek medical advice • Inhalation: Remove person to fresh air and keep comfortable for breathing • Storage - Tightly closed container
Theatrical blood	Considered non - hazardous	Liquid	<20mL	*Frequency:* 1-5 times / day *Duration*: 10-30min	N/A	• All spillages mopped up immediately with inert absorbent material. Rinse with water. • Disposal – dilute and pour down foul-water drain • Storage - Tightly closed container
Plasticine	Considered non-hazardous	Solid	~500g	*Frequency:* 1-5 times / day *Duration*: 10-30min	N/A	• Eye contact: Rinse with water for several minutes. • Skin contact: Wash immediately with plenty of soap and water. • Ingestion: Immediately seek medical advice • Inhalation: Remove person to fresh air and keep comfortable for breathing • Spillage: Absorb into dry earth or sand • Store in cool, well-ventilated area. Keep container tightly closed. •
Phenolphthalein (0.5% in ethanol) Presumptive blood test	Flammable Irritant Health Hazard	Liquid	<1mL	*Frequency:* 1-5 times / day *Duration:* 1-5min	• Wear Eye protection • Gloves	• Eye contact: Rinse with water for several minutes. • Skin contact: Wash immediately with plenty of soap and water. • Ingestion: rinse mouth. Do NOT induce vomiting. Immediately seek medical advice • Inhalation: Remove person to fresh air and keep comfortable for breathing • Spillage: Absorb into dry earth or sand • Store in cool, well-ventilated area. Keep container tightly closed. • W7 - Small amounts dilute <0.1% for disposal into foul water.
Hydrogen Peroxide (Food	Irritant (eyes)	Liquid	~30mL	*Frequency:* 1-5 times / day	• Wear Eye protection • Gloves	• Skin contact: Wash immediately with plenty of soap and water.

Grade): 8% w/v (28vol = 2.3M) Presumptive blood test				*Duration: 1-5min*		• Eye contact: Bathe the eye with running water for 15 minutes. • Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible. • Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. • Spillage: Absorb into dry earth or sand • W7 Disposal – small quantities via drainage system. Dilute to 30 vol or lower • Storage - Tightly closed container, cool
50x Electrophoresis buffer (TAE) https://www.edvotek.com/site/pdf/114_SDS.pdf	Warning Irritant	liquid	500mL	*Frequency:* 1-5 times / day *Duration:* 30-60min	• Wear Eye protection • Gloves	• Inhalation: Fresh air • Eye contact: Rinse opened eye for several minutes with running water. • Skin contact: Wash immediately with plenty of soap and water. • Ingestion: rinse mouth, seek medical advice if symptoms develop. • All spillages mopped up immediately with inert absorbent material • Disposal: chemical / biowaste
FlashBlue™ DNA Stain. https://www.edvotek.com/site/pdf/114_SDS.pdf	Warning Irritant	liquid	500mL	*Frequency:* 1-5 times / day *Duration:* 10-30min	• Wear Eye protection • Gloves	• Inhalation: Fresh air • Eye contact: Rinse opened eye for several minutes with running water. • Skin contact: Wash immediately with plenty of soap and water. • Ingestion: rinse mouth, seek medical advice if symptoms develop. • All spillages mopped up immediately with inert absorbent material • Disposal: chemical / biowaste

Waste Disposal procedures	• Non hazardous liquids can be rinsed down foul water drain. • Non hazardous waste can be disposed of in household waste. • Consult CLEAPSS hazcards / W Hazcard summary

Emergency Procedures:	Following CLEAPSS General Incident strategy: Assess > Respond > Manage **Fire** ● *Safe to deal with:* Cut off ignition / fuel source and extinguish flames ● *NOT safe to deal with:* Evacuate building by nearest fire exit and call 999 **Spillages/ leaks** ● *Safe to deal with:* Wear correct PPE, maintain safety. Contain > collect > treat spill. Clean spill area. Dispose of treated spill. Ensure all contaminated equipment is cleaned, check clothes / skin. Wash thoroughly. ● *NOT safe to deal with:* Isolate and secure spill area. Call CLEAPSS helpline 01895 251 496f or advice or 999. **First aid** ● *Non chemical emergencies:* clothing / hair on fire > Stop, drop & roll, Burns > Cools and seek medical advice, cuts > control bleeding, raise wound, if severe seek medical advice. Asthma attack / anaphylactic shock > Support & protect. Fainting / epileptic fit > lower casualty to floor if losing consciousness, make area safe, if unconscious place in recovery position. Seek medical advice if required. Contact supervising adult / parent. Electric shock > isolate from supply, call 999. ● *Chemical emergencies:* **Eye** > irrigate 10min, if severe call 999, otherwise call 111 for advice. **Mouth**> Rinse and spit, if symptoms severe call 999, otherwise call 111 for advice. DO not induce vomiting. Do not swallow liquid. **Inhaled** > Move to fresh air, if symptoms severe call 999, otherwise call 111 for advice. Ventilate / evacuate aera as necessary. **Skin** > irrigate 10min, if severe call 999, otherwise call 111 for advice. Remove any contaminated / restricting clothing or jewellery while irrigating.		
Reviewed by:		**Date:**	5/8/25
Next Review date:	Next time activity happens again		