Imperial College London

EVENTS OFFICE: Activity overview and risk assessment

Name Title / F		Position		Faculty / Department / Section			
		Lectur			Dyson School of D		
Rebecca Stewart		Lectur	ei		Faculty of Engineer		
2. PERSO	N COMP	LETING OV	'ERVIEW / R	ISK ASSESSM	ENT (if different from	-	
			•		<u> </u>		
Name Rohil J Dave		Title / Position Student			Faculty / Department / Section Dyson School of Design Engineering		
Norm j Bave		Staden	Stadent		Faculty of Engineer		
3. ACTIVI	ITY TITL	.E					
Make a Zero	Waste Shi	rt with E-textile	s workshop				
4. OVERV	IEW OF	ACTIVITY	If the activit	y is a demonst	ration or workshop	, please describe in detail	
					from Events webs		
Туре:		Talk / Demons	stration only]	Audience participation involved		
individual zero garment. The g shirt pattern, d sewing machine textile sensors boards which t available for the facilitated by Retwo sessions we and start of severe services.		participants will take part in the workshop. Participants will be working to create their own waste shirt and participate in a focus group discussion evaluating the fit and comfort the roup will assist each other in recording the appropriate body measurements to create a custorawing the pattern on fabric, cutting the fabric into the pattern pieces and using domestic is to construct the garment. The workshop will also introduce how to do basic integration of into clothing. Participants will be bringing their own laptops and connecting to Arduino-like then connect to conductive textiles. Domestic sewing machines and clothing irons will be extextile work, but the participants will not be doing any soldering. The workshop will be obid J Dave and Becky Stewart and assisted by two PhD students. The workshop is broken into ith 1) first session focused on overview, measurement taking, pattern making and sewing basiving segment and 2) second session dedicated to progressing with sewing the garment till illuation discussion.					
Date of even	nt	10 and 14 May	0 and 14 May 2024				
5. LOCAT	TION OF	THE ACTIV	ITY (Comple	ete as relevant	:)		
Campus	South K	ensington	Building	ACE	Exact Location	ACEX 151 Mezzanine	
	Location not on College premises (describe)				Location type (e.g. lab,	Workshop lab benches	

Confirm that this activity does not present any significant hazard	If you CANNOT confirm this, then you must complete the risk assessment overleaf. If you CAN confirm that there are no significant hazards associated with the activity, then please enter details below and forward the form directly to the Events Office. (see Guidance Notes on Page 4)			
Name Rohil J Dave		Date 25 Apr 2024		

Risk assessment						
I. HAZARD SUMMARY (each identified hazard mus	t the	n be detailed in Section 2 be	low)			
Moving machinery	Public areas		Genetically-modified Micro-organisms			
Lifting, carrying or pulling	Explosions or implosions Non- GM biological agents					
Sharps		Noise Live animals				
Electrical		Extreme hot or cold items	\boxtimes	Laboratory animal allergens		
Working at height		Pressure/steam				
Falling objects		Naked flames Chemicals hazardous to health				
Environmental factors (terrain, water, weather)		Cryogenic liquids		Emotive or security issues		
Slips, trips or falls		Compressed gasses		Ionising Radiation		
Traffic		Travel		UV/lasers/microwave/ other non-ionising radiations		
Other						
2. Brief description of the hazardous aspect of the activity		Precautions (controls)			ls ris high med or lo	, ium
Moving sewing machines, clothing iron and workshop materials from Dyson Building to ACE Building		A trolley will be used to move the machines and materials across campus. Trolley will be moved by at least two individuals together, never alone. Only the workshop facilitators will move the machinery and materials.		First aid kit will be available for any small cuts or abrasions encountered. The nearest first aid kit is on 151 mezzanine by the sink. Local first aiders (Ingrid Logan, Claudia Morgan, and Chloe Allen-Greeves) will be present in the ACE workshop for assistance. If further assistance is needed there is an internal phone which can be used to contact security on ext. 4444 or by mobile on 020 7589 1000. Any accidents, incidents or nearmisses will be reported on SALUS.	low	
Lifting and carrying sewing machine and clothing irons up stairs to mezzanine (no lift access) and trips falls when carrying these items	Approx. weight of sewing machine is 6.5 kg and is a manageable weight to be carried by one person up the stairs. Only the workshop facilitators will be moving the machinery. Only one sewing machine will be moved at a time, individual will not attempt to move more than one machine in one go. Individual will maintain firm grip and stability of the sewing machine while moving up/down stairs with one hand on the built-in handle and one hand supporting underneath the machine. Machine will be held between shoulder height and elbow height level and individual will not raise machine to level near or above		First aid kit will be available for any small cuts or abrasions encountered. The nearest first aid kit is on 151 mezzanine by the sink. Local first aiders (Ingrid Logan, Claudia Morgan, and Chloe Allen-Greeves) will be present in the ACE workshop for assistance. If further assistance is needed there is an internal phone which can be used to contact security on ext. 4444 or by mobile on 020 7589 1000. Any accidents, incidents or nearmisses will be reported on SALUS.			

	head height. Another individual will accompany the lifter/carrier to open doors.		
Use of sewing machines and clothing irons	Sewing machines and clothing irons used are domestic and in good working order. All machines used are CE marked. Any damage or faults to machines reported to owner and taken out of service until repaired. Machines will be powered by mains socket. Visual inspection will be carried out before each session to verify good working order of appliance itself, cable, plug and mains socket. Workshop facilitators include individuals with lots of experience using sewing machines (possessing fashion degrees) and will and test machines and the set up to ensure it is safe to operate. Irons will also be tested to ensure steam level is normal and in good working condition Facilitators will provide demonstrations to participants individually before allowing use of machines.	Any accidents, incidents or nearmisses will be reported on SALUS.	low
Abrasions and cuts when operating sewing machine (needle through finger), using scissors to cut fabrics (scissor blade cut hand), and using pins during sewing (pins prick through finger/hand)	Participants will use machines and tools only under direct supervision of workshop facilitators. Only good working condition fabriconly scissors will be used for cutting fabrics. Pins will be kept in designated box and area. Participants will be instructed to replace pins back to box immediately after finished using them on a step-bystep basis during the sewing segment. Regular checks will be carried out by workshop facilitators to ensure no loose pins are left lying around on tables or floor, returning them to the designated box if found. As a precaution, large cutting mats from ACE workshop will be used under the fabric pieces during cutting to prevent damage (nicks and scrapes) to tables.	First aid kit will be available for any small cuts or abrasions encountered. The nearest first aid kit is on 151 mezzanine by the sink. Local first aiders (Ingrid Logan, Claudia Morgan, and Chloe Allen-Greeves) will be present in the ACE workshop for assistance. If further assistance is needed there is an internal phone which can be used to contact security on ext. 4444 or by mobile on 020 7589 1000. Any accidents, incidents or nearmisses will be reported on SALUS.	low
Burns and fire hazard from using clothing iron	Participants will use machines and tools only under direct supervision of workshop facilitators. Irons will not be left on unattended. After each session, irons will be allowed to cool down (minimum ten minutes) before storing/moving.	Any burns will be immediately treated with cold water and burns kit. The nearest burn kit is outside technicians' office on 151 ground floor. Removal of the power source i.e. unplugging cable from mains socket. Any accidents, incidents or near-	low
	Before each session, participants will be made aware of exit routes the event of an evacuation.	misses will be reported on SALUS. For evacuation, the nearest assembly point is point B – Aero Car park. The	

			point can be reached through 151 ground f through the far end e mezzanine leads to st to point B. Refer to A GEEP.pdf	loor entrance or xit of 151 aircase straight		
Electrical shock from using Arduino-like boards	laptop through Laptop will not during use. Elec- used all use low	ards are powered via USB connection. be plugged into mains tronics parts being voltage and low direct minimal danger and discomfort.	Removal of the powe unplugging the USB le Any accidents, incider misses will be reporte	ad from laptop. nts or near-	low	
3. Who might be harmed?						
Presenter only		Audioneo plus prosente	r 🕅			
<u></u>		Audience plus presenter ☑ Other □ Describe:				
If audience participation is involved, do any				Only adults in atte	endance	
4. Describe the waste disposal ro	utes for any h	azardous or conten	itious items			
N/A						
5. How often is the activity to be	carried out?					
Two 4 hour sessions						
7. REVIEW & SIGN OFF (Refer to	o matrix belo	ow)				
Name	Position			Date		
If activity is to take place on the premises provided with a copy of this risk assessme						
If activity is to take place in a public location						

REVIEW & SIGN-OFF MATRIX

The matrix below describes the <u>minimum</u> review and sign-off requirements for the risk assessment in relation to the type of activity being undertaken

Activity Description	Local Safety Officer*	College Safety Department	Estates Facilities	Host Organisation	Local Authority or any other relevant body
Carried out by College staff on College premises	✓		if taking place in non-Faculty space		
Carried out by College staff on the premises of another organisation	✓			Acknowledgement that the risk assessment has been provided to the host organisation	
Carried out by College staff in a public location	✓				Acknowledgement that necessary permissions have been obtained (where relevant)
Carried out by a visiting organisation on College premises		✓	if taking place in non-Faculty space		

^{*}Local Safety Officer refers to Faculty Safety Manager, Campus Safety Manager or Departmental Safety Officer. See http://www.imperial.ac.uk/safety/who-we-are/local-safety-staff/ for a current list of Local Safety Officers.

Note: The College holds Employers and Public Liability Insurance that covers events organised by the College. It is not therefore necessary for the College Insurance Manager to sign-off individual activity assessments.

GUIDANCE NOTES

The College has a responsibility to undertake risk assessments before we engage in any activity that may present a risk of injury of ill health to both our own staff and others who may be affected by our activities e.g. members of the public.

- I. Completed forms must be returned promptly to the Events Office to avoid delays and allow plenty of time for review and sign-off by the relevant stakeholders. Reviewers require a minimum of two weeks prior to the event.
- 2. A degree of judgement will be required in determining whether the risk assessment section requires completion. Straightforward lectures or simple demonstrations requiring minimal equipment are unlikely to present any significant hazard that warrants recording. In general, if any of the hazards in Section 1 of the form are identified, then it is likely that the risk assessment section will require completion.
- 3. It must be absolutely clear from the form where the activity is to take place. If it is off-site (particularly in a public place), then this may present additional challenges and arguably heightens our liabilities.
- 4. Activities involving hazardous substances must as a minimum record:
 - a. The name of the substance, the hazards presented (including any Hazard Statements or Workplace Exposure Limits).
 - b. The quantity being handled (this has a direct bearing on the consequences should something go wrong).
 - c. Consider any transport issues (both within College premises and outside). If hazardous substances are taken outside the College, they may fall within the scope of the transport of dangerous goods regulations. There may also be insurance implications if private vehicles are used for business purposes.

- d. Consider what precautions need to be in place to prevent exposure (including PPE).
- e. Consider any waste disposal issues.
- f. Consider emergency procedures including spillage control and first aid.

The precautions only need to be proportional to the type and quantity of substance involved.

- 5. Precautions need to be realistic. If a source of running water is required in the event of an eye splash, a source must be readily available. If a spillage can be envisaged, the materials to deal with it need to be at hand. If hazardous waste is generated (including that from a spillage clean-up) it needs to be disposed appropriately this may involve getting it back to the laboratory in the first instance. These issues can become more problematic when working off site. It is not uncommon to see risk assessments where text is cut—and-pasted from the safety data sheet without consideration as to whether the necessary means are actually available or workable.
- 6. The issues covered in points 4 & 5 can broadly be applied to biological agents.
- 7. Remember to consider the risk of transmitting/being infected by COVID-19 as part of your assessment.
- 8. Any activities involving radioactive sources need to be approved by the Departmental Radiation Protection Officer or the Safety Department Radiation protection team.
- 9. Consider any lone working issues. Can a lone worker manage the task on their own (particularly if something goes wrong)?
- 10. Consider what documentation and ID needs to be carried if working off-site, particularly in public places. If College staff are challenged, they will need to demonstrate that the activity is legitimate and that any necessary permissions have been obtained.

LINKS:

Events: https://www.imperial.ac.uk/advancement/advancement-operations/institutional-events/

Running an event: https://www.imperial.ac.uk/events-and-hospitality/

Imperial Festival: http://www.imperial.ac.uk/festival

Prevent Duty: https://www.imperial.ac.uk/admin-services/secretariat/secretariat/what-we-do/prevent/