

# WORKPLACE RISK ASSESSMENT SYSTEM

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Risk Assessment Details ID: RA\_EEE\_79930 Rev No: 1  Draft ID: 0 

<b>User's School/ Department/ Student Activity Group:</b>	School of Electrical & Electronic Engineering	<b>Project Title:</b>	E016 - A Particle Detector for Air Quality Monitoring
<b>Workplace:</b>	School of Electrical & Electronic Engineering	<b>Other workplace:</b>	-
<b>Location:</b>	Project Lab S2 B4-02	<b>Conducted By:</b>	HO KOK PIN(KHO017@e.ntu.edu.sg);CHUA JIAN MING(CHUA1000@e.ntu.edu.sg);XU JIE(E200152@e.ntu.edu.sg);JOE CHENG KIM WEI(E190168@e.ntu.edu.sg);CHUA BENG CHOON(CHUA0981@e.ntu.edu.sg);SRIVASTAV KANISHK(KANISHK002@e.ntu.edu.sg);DHUWARAGISH RAVICHANDRA KUMAR(DHUW0001@e.ntu.edu.sg)
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<b>Approved Date:</b>	24-Jan-22	<b>Next Review Date:</b>	23-Jan-25
<b>Status:</b>	Approved	<b>Comments:</b>	It is fine for the assessment

1. Hazard Identification					2. Risk Evaluation
1a.	1b.	1c.	1d.	1e.	2a.
No.	Work Activity	Hazard	Sub Hazard	Possible Accident/Injury/Health & Person-at-Risk	Existing Risk Control Measures
1	Soldering of wires and circuit boards	Physical	Contact with heated surface	Burns/ scalds	Briefing by Lab before usage
		Physical	Others:Inhalation of Harmful Gases	Occupational asthma or respiratory illness	Solder Fume Al remove harmful during the soldering process
2	Use of electrical equipment	Electrical	Contact with electrical energy	Electrocution	Briefing by Lab before usage
		Physical	Others:Sparks	Burns/ scalds	Use of low-voltage devices to reduce damage to components that might cause fire

3	Walking on wet floor	Physical	Slips, trips and falls hazard	Back injury	Warning to have and drinking in
		Physical	Slips, trips and falls hazard	Sprains, strains	Wear non-slip shoes
4	Working with small fans (~5cm x 7cm)	Mechanical	Cut	Limbs injury	Design of guard to prevent limbs from fan.
5	Operating hand tools	Mechanical	Cut	Limbs injury	Proper PPE use to protect limbs
6	Testing of prototype with different air quality	Physical	Others: Testing of PM2.5/PM10/CO2/Alcohol	Occupational asthma or respiratory illness	Testing the prototype in an open environment with good air ventilation
		Physical	Fire	Burns/ scalds	Use of small candles to mimic fire to test prototype away from highly combustible material. Bucket of water present during testing in case of an emergency