

NATIONAL UNIVERSITY OF SINGAPORE
FACULTY OF SCIENCE

Experiment-Based Risk Assessment Form

Name of Department <u>Chemistry</u>	Location of Lab <u>S7-04</u>
Name of Laboratory <u>Advanced Chemistry Teaching Lab</u>	Name of PI <u>Dr Foo Maw Lin</u>
Name of Researcher/LO <u>Leng Zhi Jin, Wong Ling Rong</u>	Name of Activity/Experiment <u>CM5176 GIST - Heat Exchanger</u>

Hazard Identification				Evaluation and Risk Controls						
No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	Operation of GUNT heat exchanger and chiller	1) Electrical hazards (heater, pumps, chiller). 2) Hot surface (pipes, heater, chiller).	1) Possible electric shock if wires not properly grounded. Electrocutation may occur upon contact with exposed wires. 2) Skin burns on hot surfaces.	1) Wear safety glasses and lab coat 2) Ensure that heat exchanger unit and chiller are properly grounded and all cables are properly insulated. Check that the area around heat exchanger and chiller is clean and dry before operating. Only use with dry hands. 3) Avoid touching hot surfaces. If one has to, use a piece of cloth or wear cotton gloves to provide insulation.	2	1	2			

Conducted By


Name Dr Foo Maw Lin

Signature _____

Date _____

Approved By

Name Assoc Prof Jason Yeo

Signature 

Approval date 11-Jun-22

Next Revision date 10-Jun-25
(Maximum 3 years)