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Chairman, CPIH Board (Zainal Mubarik Zainuddin, CPIH) Malaysian Industrial Hygiene Association (MIHA) No 19A, 1st Floor, Jalan 2/14, Bandar baru Selayang, 68100 Batu Caves, SELANGOR D.E. MALAYSIA

Dear Sir.

LETTER OF VERIFICATION FOR MASTER OF SCIENCE OCCUPATIONAL HEALTH AND SAFETY (SYAZWAN AIZAT BIN ISMAIL, IC: 860911-23-7085)

We refer to the above matter and are pleased to verify that Mr. Syazwan Aizat Ismail (860911-23-7085) was a student under program of MSc (Occupational Health & Safety) and had completed his Master degree as stated on his transcript.

He has been working with his Master thesis and enrolls industrial hygiene relevant subject and professional attachment as presented in Attachment 1 of this letter. His professional experience/s during Master degree program and publication exercise of relevant scientific article related with industrial hygiene field was very impressive.

If you have any further questions, please do not hesitate to contact undersigned.

Thank you,

"With Knowledge We Serve"

DR. NIZAR ABD MANAN

Senior Lecturer/ Academic Advisor Faculty of Medicine and Health Sciences

CC Syazwan Aizat Ismail Allied Health Science College Sungai Buloh, Ministry of Health Malaysia, Jalan Hospital 47000 Sungai Buloh, **SELANGOR**

Name: Syazwan Aizat Bin Ismail

Current Position: Tutor (Environmental & Occupational Health), Ministry of Health

Detail about the broad Industrial Hygiene subject covers during Master's Degree Subjects

of health	guideline	interpret	and requ	not limit	This subj		industria	work env	of hazarc	of descri	This cour		standard.	following	work safe	knowled	mean for	environn	to the oc	and relev	occupation	(EOH5202) for occup	System the non-	Management exercise	Safety knowled	Health and to give the	1. Occupational This cour	No. Subject Name Descripti
of health hazards, including	guidelines for the assessment	interpretation and use of	and requirements for the	not limited to) the principles	This subject also covers (but		industrial processes.	work environment and	of hazard in different type of	of description and recognition	This course contains element			following the appropriate	work safe environment by	knowledge of the maintaining	mean for applying the	environment. This subject	to the occupational	ď	occupational hygiene issues	for occupational health/	the non-engineering control	exercise the work related to	knowledge and practical	to give the student/s	This course offer by the faculty \mid :	Description Detail
occupational hygiene	regarding industrial/	about the relevant topics	Student also being taught		issues.	and occupational medicine	of occupational epidemiology	hygiene issues, understanding	related to the occupational	health promotion program	this course. This include	were also conducted during	implement control actions	appropriate techniques to	recommendations by	advance communication of	Student also performed		Employees are included.	of	communication and training	control banding and hazard	controls,	including the hierarchy of	risk reduction process	document, understanding the	The student was review the	Content
												decision making.	organizational structure and	accountability, risk communication,	delegation of authority,	establishment of policy, planning,	program) and integration,	related data (hearing conservation	analysis for occupational hygiene	Management and analytical		occupational toxicology cases, data	accident/incident and relevant	investigation methods for	meeting the standard required,	Auditing the relevant protocol for	The activities conducted as follows:	Assessment/ Activities/ Subject
																					 v. Non Engineering Controls 	Hazard Communication	iv. Health Risk Analysis and	industrial processes.	iii. Work environment and	ii. IH Program management	 Basic sciences; 	IH Rubric Covered

orgintion, organization timely and conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure and risk pational During this course the student also training for the ventilation of the industry. e than 5 than 5 than 5 udy had been organization unit for the time contact for the occupational contact for the occupati	During this course the student a involve directly with the specific training for the ventilation assessment conducted by accredited industry. This course requires student to performed occupational health attachment/ training to specific organization/ unit for the time contact for the occupational	characterization and risk control for occupational health hazards. This subject required the student to perform special topics relevant to the occupational health issues. There were more than 5 different mini study had been performed during this course to enhance/ strengthen the occupational hygiene skills.	Health (NIOSH), relevant Malaysian Act, Regulation and standards. This subject was specialized design to assist student in enhancing/ develop their interest/ skill in required competency (occupational health and safety). This subject organizes by supervisor in relation to build up good connection and skill based program for students exposure related to	Special Topics (PSK5905)
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ting sluate siene go of During this course the student also involve directly with the specific training for the ventilation assessment conducted by accredited industry. iii.	During this course the student a involve directly with the specification training for the ventilation assessment conducted by accredited industry.	characterization and risk control for occupational health hazards. This subject required the student to perform special topics relevant to the occupational health issues. There were more than 5	Health (NIOSH), relevant Malaysian Act, Regulation and standards. This subject was specialized design to assist student in enhancing/ develop their interest/ skill in required competency (occupational health and safety). This	Special Topics (PSK5905)
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mely ting iluate ge of During this course the student also involve directly with the specific ii.	During this course the student a	characterization and risk control for occupational health hazards. This subject required the student to perform special	Health (NIOSH), relevant Malaysian Act, Regulation and standards. This subject was specialized design to assist student in	Special Topics (PSK5905)
mely ting lluate giene Ouring this course the student also i.	During this course the student a	characterization and risk control for occupational health hazards. This subject required the	Health (NIOSH), relevant Malaysian Act, Regulation and standards. This subject was specialized	Special Topics
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure and risk pational		characterization and risk control for occupational health hazards.	Health (NIOSH), relevant Malaysian Act, Regulation and standards.	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure and risk pational		characterization and risk control for occupational	Health (NIOSH), relevant Malaysian Act, Regulation and standards.	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure and risk		characterization and risk	Malaysian Act, Regulation and	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure		assessment, risk	Health (NIOSH), relevant	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of ure			()	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This nowledge of		sampling, exposure	Occupational Safety and	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene ace. This		reflects to the knowledge of	and National Institute for	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring alth/ hygiene		issues in workplace. This	Materials (ASTM) standards,	
ognition, ntrol zard in timely d conducting dy to evaluate onitoring		occupational health/ hygiene	Society for Testing and	
ognition, ntrol zard in timely d conducting dy to evaluate		the system of monitoring	(ASHRAE) guidelines, American	
ognition, ntrol zard in timely d conducting		specific case study to evaluate	Air Conditioning Engineers	
ognition, ntrol zard in timely		Student required conducting	for Heating, Refrigeration, and	
ognition, ntrol zard in timely			standards, American Society	
ognition, ntrol zard in timely		manner.	Standards Institute (ANSI)	
ognition, ntrol		occupational hazard in timely	guidelines, American National	
ognition,		evaluate and control	industrial ventilation	
		anticipation, recognition,	Exposure Indices (BEIs) and	
strial hygiene		accomplish industrial hygiene	Limit Values (TLVs), Biological	
rces to		control of resources to	Hygienists (ACGIH) Threshold	
ocate and		the ability to allocate and	Governmental Industrial	
nis includes		management. This includes	American Conference of	

	exercise specialized training as	control of hazard/	
	Student also involve in Naval	management and	
		iv. Hazard, risk	
	assessment.	temperature)	
	ventilation testing/	Heat/ Extreme	
	general and local exhaust	Electromagnetic,	
	indoor air quality study,	monitoring (noise,	
	assessment, vibration study,	iii. Physical hazard	
knowledge of the students.	noise monitoring, health risk	investigation)	
the professional report/ technical	This include the exercise of	biohazard (air quality	
different professional evaluating		(solvent based) and	
the peer review process by	(ERALAB Sdn Bhd).	chemical exposure	
conducted and evaluation done by	Hygiene Consultant Firm	monitoring for	
based on the mini project	external Occupational	ii. Occupational hygiene	
This subject uniquely evaluated	collaboration effort from	project);	
	workplace with the	part of master	
(spillage/ protection)	assessment conducted in	competency based for	
vi. Chemical management	occupational hygiene	ergonomics for the	
v. Basic life support	includes the real process of	 Ergonomics (applied 	
the PPE	industries. The exercise		
related to the PPE/ testing	hygiene exercise in oil and gas	as follows:	
iv. Breathing apparatus	for the relevant occupational	professional but not limited to	
management	external consultant/ scientist	occupational hygiene	
iii. Fire and chemical spill	attach with the private firm as	include the topics relevant to	
to pressure hazards	program, student had been	covered in this subject/ code	
ii. Working procedure related	months in the master	The general content to be	
 Confine space entry 	During the duration of several		
		based curriculum.	
follows (but not limited to):	monitoring/ study.	for the benefit of the skill	
environment hazard such as	occupational hygiene	status of hygiene involvement	
to the specialized work	toxicology and had skill for	attachment/ candidature	
Specialized (TLDM) training related	science, epidemiology, and	concept of professional	
Student also involve Naval	knowledge for the basic	This subject encourages the	

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	Master's Research (SPS5999) (9)	
During this subject, student went to the work environment (in this case, educational setting workplace as primary aimed of the hazard analysis). The student collect own data with minimum supervision by the supervisor related to the master project/ research.	This subject specialized in giving the students exposure to the practical attachment related to the master's project and field of interest (occupational hygiene) in relation with the master's degree.	intervention taken to reduce specific hazards. v. Engineering control (LEV/ General Ventilations)
hazards) related to the educational environment in Malaysia (based on selected school) iii. Application of economics in analyzing the risk factor related to musculoskeletal pain among respondent; iv. Utilizing and using the principle of occupational hygiene in controlling identified hazards; v. Conducting the control measures	The process of this master's research include: i. Pilot study (preliminary study of the environmental hazards) ii. Data collection (occupational/environmental	competency based/ practical based assignment for the application of knowledge.
	The student conduct study based on selected and pre-determine objectives with the clear evidence of utilizing occupational hygiene approach in anticipate, recognize and evaluate thus conduct appropriate and cost effective way of controlling hazards in educational environment.	
	i. Basic Science;ii. Health Risk Analysis and Hazard Communicationiii. Ergonomics	

<u> </u>	[mining and factory])Biological (including biohazard analysis of risk in	During this course, students ask permission for specific	occupational hygiene sampling (all related hazards) and perform occupational hygiene		
¥ ¥	chemical in different sector	hygiene monitoring exercise.	Students will plan the		
≦:	ionizing radiation);	industrial hygiene report	hygiene practices.		
<u>≤</u> .	 Physical (including non- 	are required to produce	the student in occupational		
	related to the hazards as follows:	During this course, students	assess the competency level of		
	occupational hygiene assessment	epidemiological investigation.	content to test, evaluate and		
	make up and data collection from	and data analysis for	subject is the core of the		
	include the professional report	assessment, data collection	manner. This compulsory	(EOH5203)	
_	instrumentation and data analysis)	occupational hygiene	hygiene field in the practical	Hygiene	
	knowledge and skill of	learning related to	topics related to industrial	Industrial	
	The assessment (application of	Consist of problem based	This subject focus on the	Advance	4.
		effectiveness study.			
		arialysis for			
		biostatistics for data			
		epidemiology and			
		vii. Application of			
		hazards)			
		the ergonomics			
		promotion related to			
		measures (health			
		non-engineering			
		measures related to			
		vi. Conduct control			
		students);			
		anthropometric of the			
		testing the			
		new furniture and			
		control (by designing			
		including engineering			

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Analytical Techniques in Environmental Studies (ESC5012)	
This course design to provide the students with knowledge, and lab based skill related to analytical chemistry for environmental/ occupational	
This class has significant time for laboratory based analysis and practical training session for environmental students.	
This m labora assess candid perfor	Ž:
This module consists of practical, laboratory work and field assessment conducted by the candidate. The student was performed intermediate analytical	setting (labs, agriculture industry and manufacturing); General ventilation assessment in medical laboratory (UPM); Chemical health risk assessment (CHRA); Health Risk Assessment (HRA); Noise assessment and audiometric measurement among factory/ general workers (comparison study); Vibration assessment for whole body and hand arm vibration for the transportation industries Radon study in MINT (Malaysian Institute Nuclear Technology) (Bangi), sampling of the radon in the occupational setting. Study of aerosol science in mining (Hanson Quarry Sdn Bhd)
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Analytical Chemistry Biostatistics & Epidemiology Toxicology Basic sciences	

This maj	The the assi sup pro	inte	was	spe	oth	Spe	Abs	Cop	Chr	inst	ana	ana	A st		exp	wor	exp	abo	This		env
This class/ subject have 3 major components: 1. Analytical chemistry 2. Data analysis/ modeling of	The samples were taken by the student as their work assignment and being supervised accordingly to produce analytical result.	interpreted accordingly.	was performed and	specific concentration of the	others. The measurement of	Spectrophotometer and	Absorption	Copper Plasma, Atomic	Chromatography Inductive	instrument such as Gas	analysis using scientific	analytical measurement/	A student was conducting		exposures.	work/ process related	exposure, toxicology and	about the community	This course also talks/ discuss		environment samples.
				writing.	relevant protocol for scientific	data management and	screening/industrial hygiene	interpretation, data	master the data	epidemiological data to train/	taken by previous	data analysis of the samples	The student also performed		relevant to the exposures.	concentration of the samples	applied to obtain the	chemistry method was	given and the analytical	samples based on objectives	Students required collecting
		occupational/ environmental exposure.	solvents and hydrocarbon in the	human health. The example of the	environmental exposure related to	different type of occupational /	includes the sampling protocol for	The exercise taken for this subject		from the journal.	publication/ review the article	critically write an article for journal	component where the students	the data analysis consist of	The interpretation of the result and		laboratory of conduct.	contaminants) during the period of	exposures (related to organic	determining the level of chemical	chemistry application in

4.	
Seminar Research Proposal (SPS5903)	
This course focus on the medical ethic clearance for conducting research related to the occupational health application of knowledge.	environmental/ occupational health exposure; 3. Epidemiology and biostatistics (related to community exposure from the emission of the substances, toxicology of the substance by affecting human health and relevant changes to the work process for reducing hazards exist)
Student build proposal and submit to the medical ethic committee for proposal defense. This includes the technical knowledge about the research content.	
The research propose was using the occupational hygiene technique namely anticipation (using scientific method for screening hazard in educational setting), recognition of hazard (by technically calculate the hazard index in the educational environment), evaluate (measures technically the exposure of environmental/ occupational hazards in educational set up), and control (the usage and development of the new approach using non-engineering control (tested method with scientific merit/ award winning invention) by	
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Community Exposure Ergonomics IH Program Management Health Risk Analysis and Hazard Communication	

						5.			
				(SPS5999) (9)	Research	Master's			
technique.	occupational hygiene	relevant to the application of	conduct scientific research	research methodology to	applying the principles of	This course specialized in			
health.	occupational/ environmental	writing relevant to the field of	proceed with the scientific	collection process, thus	already conduct the data	This period the student			
	occupational hygiene.	study relevant to the field of	include the pilot and preliminary	only this master's research project	international scientific article for	The students produce more than 5	promotion)	measures related to health	conducting administrative
			₹	≓	≓	-			
		Hazard Communication	Health Risk Analysis and	IH Program Management	Ergonomics	Community Exposure			

Detail about the broad Industrial Hygiene subject covers during Master's Degree Project

			No
		1.).
	(5P55999) (12)	Master's Research	Subject Name
	thesis was "Evaluation of two ergonomic intervention programs in reducing ergonomic risk factors contributing to musculoskeletal pain among school children". This public health research conducted using scientific, epidemiological and occupational hygiene approach in achieving the primary objective of the study.	The title of the master	Description Detail
educational community ii. Risk characterization using semiquantitative measurement in educational setting; iii. Ergonomic risk assessment; iv. Chemical	by few stages include risk characterization by conducting preliminary survey of the community exposure related to the hazards, occupational health issues in the educational facilities and focusing on the specific issues for early mitigation measures/ intervention program. Summary of overall project include: i. Air monitoring exposure among	This study being divided	Content
includes the air quality, confine space/ dangerous workplace in educational setting. v. The workplace/ environmental setting assessment/ study conducted for the improvement for example illumination study for the work areas, color preferences and posture analysis. vi. The student apply/ synthesis	rubric include (but not limited to): i. Application of the ergonomic study to prevent musculoskeletal pain among respondents; ii. Development of the ergonomic intervention package (engineering/ human factors concept in biomechanics) for the intervention package; iii. Community exposure related to the stressor/ hazards in educational setting; iv. Occupational hazard relevant to the educational setting	This project apply many principles of	Assessment/ Exercise
	this duration to this duration to complete the part of project including the primary 17 parts of IH main rubrics (based on ABIH recommendation).	Almost all the	IH Rubric Covered

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Master's Research (SPS5999) (12) continue	
This subject/ code focus on the technical part of the master's degree. This subject focuses on the level of creation according to the bloom taxonomy of learning and psychomotor in the highest level. This subject requires students to develop specific scientific write up and published in international/ national journal about OSH/ IH field.	
This is the end of the master's degree part of this MSc (OSH). Student presents the relevant study using platform of international or national seminars. Student Published more than 4 articles related to the field of occupational hygiene in the international journal in the reviewed article.	exposure monitoring related to respiratory illness among respondents; v. Physical stressor assessment (include illumination study, physical hazards such as noise, heat and others)
Thesis defense and viva voce Student presented the 4 article published and one article intended to be submitted in the viva-voce. Student able to apply and develop new thing in the body of knowledge for industrial hygiene	the knowledge of epidemiology and biostatistics in data analysis for the experimental study.
Almost all the element of general rubric of IH covered during this project (as the project utilizes the component of IH to mitigate hazard analysis and control). Student successfully shown competency, professional ethics and full of knowledge in the context of applying occupational hygiene professional work in the field and academic world.	

Master's Project includes:

vii. Evaluation of epidemiological data collected during the baseline data collection; viii. Management/ Control of specific mitigation means to reduce the risk related to occupational/ environmental hazards exist in the educational environment.		
vi. Application of the instrument relevant to the ergonomics, ventilation, indoor environment and physical hazard relevant to educational facilities.		
research data collection process;		
v. Sampling and technique for reducing systematic error in occupational hygiene assessment/ protocol during the		
evaluation of the hazards;		
iv. Hazard analysis using quantitative "task analysis" procedure using postural analysis in the assessment/		
iii. Anthropometric evaluation of the respondents during the detail assessment of the study		
ii. Relevant air quality and indoor environmental hazard analysis		
i. Specific study on the hazard analysis related to risk management in educational facilities;		
strategies in managing occupational/ environmental hazards in specific educational environment. This include:	application	
Students must show significant occupational health/ occupational hygiene in the context of knowledge application/	Occupational hygiene	ω
of the relevant research assistant for data collection process.		
iii. Data analysis using statistical analysis for the exposure of relevant hazards in educational facilities and training		
ii. Baseline study for calibrating the instrument relevant to the occupational/environmental hazard analysis;		
ergonomics and indoor environmental hazards show significant health effect in health determinants);		
i. Reliability and validation for internal consistency of the relevant instrument for ergonomic study (the	of Study	
Student further conduct the validation process this include:	Reliability/ Validation	2.
viii. Hazard characterization process to focus on the specific mitigation for the significant hazard		
school		
vii. Analysis of preliminary data relevant to occupational and environmental epidemiology of the hazard exist in		
vi. Conduct the ergonomic risk analysis among the respondent in the educational environment		
v. Health and safety audit/hazard identification process using quantitative analysis		
iv. Chemical health risk relevant to the exposure of respondent in educational environment		
exposure		
iii. Biohazard monitoring include the process of sampling microbes relevant to the indoor biological hazard		
ii. Physical stressor assessment (include the evaluation of specific physical hazard exist in the educational		
i. Air quality study in working environment (this include the indoor air quality assessment)	Baseline study	
Student conduct multiple hazard analysis in the educational setting include:	Preliminary study/	1.
Detail Explanation	Component/ Content	No.

Professional comment:

also successfully conducts professional attachment in successful manner during field attachment. become professional occupational hygiene. Student also shown competency by obtained recognition from DOSH for competency in numerous field. Student occupational hygiene and environmental health) and numerous practical and professional report produce, this student shown suitable competency to on publication of more than 5 articles for this research specific research only and more than 15 article during the candidature period all in the context of subject taken in line with the research focus in occupational safety and health/occupational hygiene field. Beside good evidence of scientific conduct (based Based on the record, this student able to apply/ synthesis the knowledge of occupational hygiene in holistic manner, the advantages include the core

Verified by

DR. NIZAR ABD MANAN

Senior Lecturer/ Academic Advisor Faculty of Medicine and Health Sciences, UPM