INSTITUT KESELAMATAN DAN KESIHATAN PEKERJAAN NEGARA
NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH
KURIKULUM KURSUS
COURSE CURRICULUM
TEL: 03 - 8911 3800 FAX: 03 - 8926 3900
URL: www.niosh.com.my

COURSE TITLE	: Hygiene Technician 1 - Chemical Monitoring		
COURSE DURATION	: 5-day(s) / 33.75-hour(s)	**COURSE CODE**	: HT1
COURSE CATEGORY	: Competency	**COURSE LEVEL**	: Basic
HRD CORP SCHEME	: Claimable (1000159975)		
COURSE FEE	: RM3,240.00 (inclusive of 8% SST)		
EXAMINATION FEE	: RM700.00 (payable separately)		

1. COURSE LEARNING OUTCOME(S):

At the end of the course, the participant will be able to:

i. Conduct chemical monitoring.

ii. Be a competent hygiene technician (Chemical Monitoring) under the OSH (USECHH) Regulations 2000 (upon meeting the requirement on the Guidelines for the Registration of Assessors, Hygiene Technician and Occupational Health Doctor by DOSH.

2. TARGET GROUP(S):

i. This course is designed for those who intend to be competent person for conducting hazardous chemicals exposure monitoring according to OSH (USECHH) Regulations 2000.

3. ENTRY REQUIREMENT(S):

i. Malaysian citizen; **AND**

ii. Possess a Diploma in Engineering, or Natural & Applied Sciences recognised by the Government of Malaysia; **OR**

iii. Possess the Higher School Certificate / Sijil Tinggi Persekolahan Malaysia (STPM) with a principal in any science subject, or a Polytechnic Engineering certificate or equivalent.

Note: This entry requirement(s) is applicable for **training** purpose only. Please refer to the DOSH website if you would like to be a registered competent person (Hygiene Technician 1). Effective 1st January 2024, participant is required to sit for the first examination within one (1) year from the date of completion of the course.

4. TOPIC(S):

i. Introduction to Basic Principles of Industrial Hygiene.

ii. Regulatory and Standard Requirements.

iii. Principle of Airborne Contaminants.

iv. Overview: Health Effect of Airborne Contaminant.

v. Occupational Exposure Standard.

vi. Air Monitoring Procedure.

vii. Sampling Technique.
viii. Monitoring Strategy.
ix. Sample Management.
x. Sampling Results Management and Interpretation.
xi. Report Writing.
xii. Case Study.
xiii. Instrumentation, Calibration and Sampling Technique.
xiv. Instrument, Skills and Practical Session.
xv. On Site Monitoring.
xvi. Orang Kompeten: Registration, Renewal and CEP.
xvii. Overview of SOHELP.
xviii. Generic Occupational Health.

5. LIST OF REFERENCE BOOK(S):

i. Occupational Safety and Health Act 1994.
ii. Guidelines on Monitoring of Airborne Chemical Hazardous to Health 2022
iii. Guidelines for the Registration of Assessors, Hygiene Technician and Occupational Health Doctor.

6. LIST OF TEACHING AID(S):

i. LCD projector.
ii. Computer.
iii. White board with accessories.
iv. Flip chart with accessories.

7. LIST OF CLASSROOM ACTIVITIES:

i. Lecture.
ii. Discussion.
iii. Practical.

COURSE TITLE: HYGIENE TECHNICIAN 1 - CHEMICAL MONITORING

DAY ONE

TIME	HOUR	TOPIC	TRAINER / FACILITATOR
0830 - 0900	0.50	Registration	Coordinator
0900 - 0915	0.25	Course Briefing	Coordinator
0915 - 1015	1.00	Introduction to Basic Principles of Industrial Hygiene	
1015 - 1030	0.25	MORNING BREAK	
1030 - 1200	1.50	Regulatory and Standard Requirements	
1200 - 1300	1.00	Principle of Airborne Contaminants	
1300 - 1400	1.00	LUNCH BREAK	
1400 - 1500	1.00	Overview: Health Effect of Airborne Contaminant	
1500 - 1600	1.00	Occupational Exposure Standard	
1600 - 1615	0.25	AFTERNOON BREAK	
1615 - 1715	1.00	Air Monitoring Procedure	
	6.50	**END OF DAY ONE**	

DAY TWO

TIME	HOUR	TOPIC	TRAINER / FACILITATOR
0830 - 0900	0.50	Examination Briefing	ECD
0900 - 1030	1.50	Sampling Technique • Demonstration of Instrument	
1030 - 1045	0.25	MORNING BREAK	
1045 - 1145	1.00	Continuation	
1145 - 1245	1.00	Monitoring Strategy	
1245 - 1400	1.25	LUNCH BREAK	
1400 - 1530	1.50	Continuation	
1530 - 1545	0.25	AFTERNOON BREAK	
1545 - 1715	1.50	Sample Management	
1715 - 1815	1.00	Generic Occupational Health	DOSH Additional Topic
	7.50	**END OF DAY TWO**	

DAY THREE

TIME	HOUR	TOPIC	TRAINER / FACILITATOR
0830 - 1000	1.50	Sampling Results Management and Interpretation	
1000 - 1015	0.25	MORNING BREAK	
1015 - 1145	1.50	Continuation	
1145 - 1245	1.00	Case Study	
1245 - 1400	1.25	LUNCH BREAK	
1400 - 1530	1.50	Calibration	
1530 - 1545	0.25	AFTERNOON BREAK	
1545 - 1715	1.50	Continuation	
	7.00	**END OF DAY THREE**	

DAY FOUR

TIME	HOUR	TOPIC	TRAINER / FACILITATOR
0830 - 0930	1.00	Report Writing	
0930 - 1030	1.00	Skill Station 1: Respirable Dust	
1030 - 1045	0.25	MORNING BREAK	
1045 - 1145	1.00	Skill Station 2: Fiber	
1145 - 1245	1.00	Skill Station 3: Fume	
1245 - 1400	1.25	LUNCH BREAK	
1400 - 1500	1.00	Skill Station 4: Organic Gas and Vapor	
1500 - 1515	0.25	AFTERNOON BREAK	
1515 - 1715	2.00	Laboratory Analysis	
	7.00	**END OF DAY FOUR**	

DAY FIVE

TIME	HOUR	TOPIC	TRAINER / FACILITATOR
0830 - 0930	1.00	*Orang Kompeten*: Registration, Renewal and CEP	
0930 - 1030	1.00	Overview of SOHELP	DOSH Additional Topic
1030 - 1045	0.25	MORNING BREAK	
1045 - 1230	1.75	Preparation of Report	
1230 - 1430	2.00	LUNCH BREAK (FRIDAY PRAYER)	
1430 - 1530	1.00	Report Presentation	
1530 - 1545	0.25	AFTERNOON BREAK	
1545 - 1645	1.00	Report Presentation	
1645 - 1700	0.25	Evaluation & Closing	Coordinator
	5.75	**END OF THE COURSE**	