



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 CODE	: HT1
COURSE DURATION	: 5-day(s) / 31.75-hour(s)	COURSE LEVEL	: Basic
COURSE CATEGORY	: Competency		
HRD CORP SCHEME	: Claimable		
COURSE FEE	: RM3,240.00 (inclusive of 8% SST)	EXAMINATION FEE	: RM700.00

1. OBJECTIVE(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 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 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 Guidelines for the Registration of Assessors, Hygiene Technician and Occupational Health Doctor by the Department of Occupational Safety and Health, Ministry of Human Resources Malaysia, 2nd Edition 2006 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. Regulatory Requirement.
- ii. Principle of Industrial Hygiene.
- iii. Principle of Airborne Contaminants.
- iv. Health Effect and Toxicology of Airborne Contaminant.
- v. Occupational Exposure Standard.



- vi. Sampling Strategy.
- vii. Method of Sampling & Analysis.
- viii. Instrumentation and Sampling Technique.
- ix. Interpretation of Results.
- x. Report Writing.
- xi. Overview of SOHELP.

5. LIST OF REFERENCE BOOK(S):

- i. Factories and Machinery Act 1967.
- ii. *Warta Kerajaan bagi USECHH Regulations 2000.*
- iii. Guidelines for the Registration of Assessors, Hygiene Technician and Occupational Health Doctor.
- iv. Basics of Industrial Hygiene.

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.

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	COURSE SCHEDULE		
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COURSE TITLE: HYGIENE TECHNICIAN 1 - CHEMICAL MONITORING

DAY ONE

TIME	HOUR	TOPIC	TRAINER/ FACILITATOR
0830 - 0900	0.50	Registration	NIOSH
0900 - 0915	0.25	Course Introduction	NIOSH
0915 - 1045	1.50	Regulatory Requirement	
1045 - 1100	0.25	MORNING TEA BREAK	
1100 - 1200	1.00	Principle of Industrial Hygiene	
1200 - 1300	1.00	Principle of Airborne Contaminants	
1300 - 1400	1.00	LUNCH	
1400 - 1500	1.00	Occupational Exposure Standard	
1500 - 1600	1.00	Health Effect and Toxicology of Airborne Contaminant	
1600 - 1615	0.25	AFTERNOON TEA BREAK	
1615 - 1715	1.00	Principle of Chemical Analysis	
	6.50	END OF DAY ONE	

DAY TWO

TIME	HOUR	TOPIC	TRAINER/ FACILITATOR
0900 - 1030	1.50	Instrumentation and Sampling Technique	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1245	2.0	Continuation	
1245 - 1400	1.25	LUNCH	
1400 - 1530	1.50	Method of Sampling and Analysis	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1715	1.50	Sampling Strategy	
	6.50	END OF DAY TWO	

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DAY THREE

TIME	HOUR	TOPIC	TRAINER/ FACILITATOR
0900 - 1030	1.50	Interpretation of Result	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1215	1.50	Continuation	
1215 - 1300	0.75	Report Writing	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Calibration of Equipment	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1715	1.50	Calibration of Equipment	
	6.75	END OF DAY THREE	

DAY FOUR

TIME	HOUR	TOPIC	TRAINER/ FACILITATOR
0900 - 1000	1.00	Skill Station 1: Respirable Dust	
1000 - 1100	1.00	Skill Station 2: Fibre	
1100 - 1115	0.25	MORNING TEA BREAK	
1115 - 1215	1.00	Skill Station 3: Fume	
1215 - 1315	1.00	Skill Station 4: Organic Gas & Vapour	
1315 - 1415	1.00	LUNCH	
1415 - 1445	0.50	Examination Briefing	ECD
1445 - 1515	0.50	Laboratory Analysis: Respirable Dust	
1515 - 1545	0.50	Laboratory Analysis: Fibre	
1545 - 1600	0.25	AFTERNOON TEA BREAK	
1600 - 1630	0.50	Laboratory Analysis: Fume	
1630 - 1700	0.50	Laboratory Analysis: Organic Gas & Vapour	
	6.00	END OF DAY FOUR	

DAY FIVE

TIME	HOUR	TOPIC	TRAINER/ FACILITATOR
0900 - 1030	1.50	Preparation of Report	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1230	1.75	Report Presentation	
1230 - 1430	1.00	LUNCH (FRIDAY PRAYER)	
1430 - 1545	1.25	Continuation	
1545 - 1600	0.25	AFTERNOON TEA BREAK	
1600 - 1630	0.50	Continuation	
1630 - 1730	1.00	Overview of SOHELP	
1730 - 1745	0.25	Evaluation & Closing	NIOSH
	6.00	END OF THE COURSE	