



COURSE TITLE	: Monitoring Of Chemicals Hazardous To Health		
COURSE DURATION	: 5 day(s) / 30.5 hour(s)	COURSE CODE	: IHT1
COURSE CATEGORY	: Competency	COURSE LEVEL	: Basic
HRDF SCHEME	: SBL		
COURSE FEE	: RM 3,180.00 (inclusive of SST)	EXAMINATION FEE	: RM 700.00

1. OBJECTIVES:

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 GROUPS:

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):

Possess HSC/STPM with a principal in any science, or a Polytechnic Engineering certificate or equivalent; and have a minimum of one (1) year practice in occupational safety and health.

Note: 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 Resource Malaysia 2000 if you would like to be a competent Hygiene Technician I.

4. TOPICS:

- 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.



INSTITUT KESELAMATAN DAN KESIHATAN PEKERJAAN NEGARA
NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

KURIKULUM KURSUS

COURSE CURRICULUM

TEL: 03 – 8769 2100 FAX: 03 – 8926 2900

URL: www.niosh.com.my



5. LIST OF REFERENCE BOOKS:

- i. Basic of Industrial Hygiene.
- ii. Factories and Machinery Act 1967 (Act 139) & Regulations.
- iii. Warta Kerajaan bagi USECHH Regulations 2000.
- iv. Guidelines for the Registration of Assessors.
- v. Hygiene Technician and Occupational Health Doctor.


6. LIST OF TEACHING AIDS:

- i. LCD Projector.
- ii. Computer.
- iii. White Board with accessories.
- iv. Flip Chart with accessories.

7. LIST OF CLASSROOM ACTIVITIES:

- i. -

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	NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH			
	COURSE SCHEDULE			
	No. Dokumen	No. Pindaan	Tarikh	Muka Surat
	NIOSH-PDD-CS-IHT1	00	27 Dec 2011	1 / 3


COURSE TITLE: MONITORING OF CHEMICALS HAZARDOUS TO HEALTH

DAY ONE

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 0900	0.50	Registration	
0900 - 0915	0.25	Introduction	
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	TOPICS	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	TOPICS	TRAINER / FACILITATOR
0900 - 1030	1.50	Interpretation of Result	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1215	1.50	Continuation	
1215 - 1300	0.50	Report Writing	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Calibration of Equipment	
1515 - 1530	0.25	AFTERNOON TEA BREAK	
1530 - 1715	1.50	Calibration of Equipment	
	6.50	END OF DAY THREE	

DAY FOUR

TIME	HOUR	TOPICS	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 and Vapour	
1315 - 1415	1.00	LUNCH	
1415 - 1445	0.50	Exam Briefing	
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 and Vapor	
	6.50	END OF DAY FOUR	

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DAY FIVE

TIME	HOUR	TOPICS	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	
1430 - 1545	1.25	Continuation	
1545 - 1600	0.25	AFTERNOON TEA BREAK	
1600 - 1630	0.50	Continuation	
1630 - 1645	0.25	Evaluation & Closing	
	5.00	END OF THE COURSE	

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