

PLAINTIFF'S EXHIBIT

DOW-1071



**INDUSTRIAL HYGIENE
PROFESSIONAL
DEVELOPMENT WORKSHOP**

S10036589



**INDUSTRIAL HYGIENE LABORATORY
OCTOBER, 1989**

DOW CONFIDENTIAL

<u>METHOD NAME</u>	<u>LATEST ISSUE</u>	<u>METHOD NUMBER</u>
ALUMINUM	2/84	7013
AMINES, AROMATIC	5/85	2002
Aniline	g-Toluidine	
N,N-Dimethylaniline	2,4-Xylidine	
N,N-Dimethyl-p-toluidine		
AMINOETHANOL COMPOUNDS	8/87	2007
2-Aminoethanol	2-Diethylaminoethanol	
2-Dibutylaminoethanol		
AMMONIA	5/85	6701
ANISIDINE	5/85	2514
ARSENIC (hydride AAS)	8/87	7900
ARSENIC, ORGANIC	5/85	5022
p-Aminophenylarsonic acid	Methylarsonic acid	
Dimethylarsenic acid		
ARSENIC TRIOXIDE (graphite AAS)	2/84	7901
ARSINE	5/85	6001
ASBESTOS FIBERS	8/87	7402
AZELAIC ACID	5/85	5019
BARIUM, soluble compounds	8/87	7056
BENZENE by portable GC	8/87	3700
BENZIDINE and 3,3'-DICHLOROBENZIDINE	5/85	5509
BENZOYL PEROXIDE	2/84	5009
BERYLLIUM	8/87	7102
BIPHENYL	8/87	2530
BORON CARBIDE	5/85	7506
BROMOTRIFLUOROMETHANE	8/87	1017
BROMOXYNIL and BROMOXYNIL OCTANOATE	2/84	5010
1,3-BUTADIENE	8/87	1024
2-BUTANONE	2/84	2500
CADMIUM	8/87	7048
CALCIUM	2/84	7020
CARBARYL	5/85	5006
CARBON BLACK	2/84	5000
CARBON DISULFIDE	5/85	1600
CHLORINATED DIPHENYL ETHER	8/87	5025
CHLORINATED TERPHENYL	2/84	5014
CHLOROACETIC ACID	8/87	2008
CHLOROPRENE	2/84	1002
CHROMIUM	2/84	7024
CHROMIUM, HEXAVALENT	2/84	7600
COAL TAR PITCH VOLATILES	5/85	5023
COBALT	2/84	7027
COPPER (dust and fume)	2/84	7029
CRESOLS	2/84	2001
CYANIDES (aerosol and gas)	2/84	7904
1,3-CYCLOPENTADIENE	5/85	2523

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<u>METHOD NAME</u>	<u>LATEST ISSUE</u>	<u>METHOD NUMBER</u>
2,4-D and 2,4,5-T	2/84	5001
DEMETON	5/85	5514
DIAZOMETHANE	5/85	2515
DIBORANE	8/87	6006
DIBROMODIFLUOROMETHANE	5/85	1012
DIBUTYL PHOSPHATE	5/85	5017
DIBUTYL PHTHALATE and DI(2-ETHYLHEXYL) PHTHALATE	5/85	5020
DICHLORODIFLUOROMETHANE and 1,2-DICHLOROTETRAFLUOROETHANE	8/87	1018
sym-DICHLOROETHYL ETHER	2/84	1004
DICHLOROFLUOROMETHANE	5/85	2516
1,1-DICHLORO-1-NITROETHANE	2/84	1601
1,2-DICHLOROPROPANE	5/85	1013
DIMETHYLACETAMIDE and DIMETHYLFORMAMIDE	5/85	2004
DIMETHYL SULFATE	5/85	2524
DIOXANE	5/85	1602
DYES, BENZIDINE, p-ANISIDINE, and p-TOLIDINE	5/85	5013
ELEMENTS (ICP)	2/84	7300
Aluminum Iron Platinum Tungsten		
Arsenic Lead Selenium Vanadium		
Beryllium Lithium Sodium Yttrium		
Calcium Magnesium Silver Zinc		
Cadmium Manganese Tellurium Zirconium		
Chromium Molybdenum Tin		
Cobalt Nickel Titanium		
Copper Phosphorus Thallium		
EPICHLOROHYDRIN	2/84	1010
EPN, MALATHION, and PARATHION	2/84	5012
ESTERS I	2/84	1450
n-Amyl acetate Ethyl acrylate		
sec-Amyl acetate Isoamyl acetate		
n-Butyl acetate Isobutyl acetate		
sec-Butyl acetate Methyl isoamyl acetate		
t-Butyl acetate n-Propyl acetate		
2-Ethoxyethyl acetate		
ETHYL BROMIDE	5/85	1011
ETHYL CHLORIDE	5/85	2519
ETHYLENE CHLOROHYDRIN	5/85	2513
ETHYLENE DIBROMIDE	8/87	1008
ETHYLENE GLYCOL	2/84	5500
ETHYLENE OXIDE	8/87	1614
ETHYLENE OXIDE (portable GC)	8/87	3702
ETHYLENE THIOUREA	2/84	5011
ETHYL ETHER	5/85	1610
FIBERS	8/87	7400
FLUORIDES (aerosol and gas)	2/84	7902
FORMALDEHYDE (oxazolidine)	2/84	2502
FORMALDEHYDE (chromotropic acid)	2/84	3500
FORMALDEHYDE (Girard T)	2/84	3501
FURFURAL	8/87	2529

What is the goal of training on....

Asbestos --> prevent asbestos exposures from occurring

Protective Clothing --> prevent skin exposures to chemicals through proper use of protective clothing

Haz Com --> understand the potential hazards in their workplace, and to take appropriate precautions to avoid exposures

Health Surv. --> be able to update, retrieve and analyze data maintained in the Health Surveillance system

Resp. Protect. --> prevent inhalation exposures by the use of respiratory protection

???? WHY DO WE TRAIN ????

--> TO CHANGE INAPPROPRIATE BEHAVIOR

--> TO REINFORCE APPROPRIATE BEHAVIOR

TRAINING GOAL = DESIRED BEHAVIOR

"What do I want the learner to do or perform after finishing this training program?"

Goal of this session: To enable participants to develop training programs which are:

- ° well defined in terms of goals and objectives**
- ° well presented in terms of resource materials**
- ° well-documented in terms of training records**

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BASIC TRAINING GUIDELINES FOR:

ASBESTOS BASICS

REQUIRED FOR:

All employees who handle asbestos.

RECOMMENDED FOR:

All employees who have a potential for exposure to asbestos fibers.

GOAL:

To prevent exposures to asbestos by reviewing the key elements of the OSHA Asbestos Standard as implemented at Dow.

TRAINING OBJECTIVES:

Upon successful completion of this training module, employees should be able to meet the following training objectives:

- Identify the primary route of exposure to asbestos and list the most common forms of asbestos-related diseases
- Discuss the relationship between smoking, asbestos exposure and lung cancer
- Identify the common types of asbestos, typical locations of asbestos containing materials, and discuss how asbestos can be identified
- Describe how asbestos is monitored in the workplace and how the results relate to the job procedures that are required
- Identify the protective equipment required for work with asbestos materials
- Discuss the purpose of the medical surveillance program and identify the program components
- Explain the purpose of an asbestos inventory and discuss what is required during the six month inspection of asbestos containing materials

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Acrylonitrile Training Guidelines continued

- Specify what determines whether or not an area is 'regulated' and what requirements apply to such an area
- List examples of engineering controls which can reduce acrylonitrile exposures
- Select the types of personal protective equipment that may be required when working around acrylonitrile
- Describe the emergency and first aid procedures for acrylonitrile overexposure
- Identify the purpose and the requirements of the acrylonitrile medical surveillance program
- Indicate how often medical exams are required and what symptoms the medical professional is looking for in order to identify overexposures to acrylonitrile

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**LIST OF VIDEO TAPES FOR
INDUSTRIAL HYGIENE TRAINING
H&ES INDUSTRIAL HYGIENE LABORATORY, 1803 BLDG
CONTACT: INDUSTRIAL HYGIENE, 517/636-0860**

ASBESTOS

VIDEO #	VIDEO TITLE	LENGTH	YEAR
19	Safe Asbestos Removal (2 Videos)	10:00	
19.2	Asbestos Standards	55:03	
21	Asbestos Alert: Routine Maintenance	16:20	
22	Asbestos Alert: Taking Control	11:30	
22.1	Asbestos: Understanding the Hazards	22:00	1987
22.2	Asbestos: Small-Scale, Short-Duration Activities I	9:00	1987
22.3	Asbestos: Small-Scale, Short-Duration Activities II	9:00	1987
44	Asbestos, "Action News Today", KPNX TV, AZ Dean Branson		1982

BASIC IH PRINCIPLE

VIDEO #	VIDEO TITLE	LENGTH	YEAR
1	Industrial Hygiene: What is It? Lecture by R.R. Langner	48:40	1984
2	Evaluation of Exposures & Comprehensive Surveys	44:20	1984
2.1	Exposure Assessment U of M Lecture by SK Norwood		1984
3	Calibration of Pumps Lectured by RE Cook	6:11	1984
4	Preparation of Knowns Lectured by RM Hahne	28:00	1984
5	Preparation of Knowns-Lab Demonstration Lectured by R. M. Hahne	28:00	1984
6	Portable Direct-Reading Instruments Lectured by T. Kawakita	23:11	1984

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7	Portable Direct-Reading Instruments-Lab Demo.	23:11	1984
8	Industrial Hygiene's Role in Hearing Conservation	27:00	1984
9	Industrial Hygiene's Hearing Conservation Lab Demonstration by NH Wetterstroem	12:00	1984
10	Ionizing Radiation Fundamentals	39:40	1984
11	Ionizing Radiation Instruments-Lab Demonstration	39:40	1984
12	Selecting Effective Protective Equipment Lectured by MW Spence	39:37	1984
13	Selecting Effective Protective Equipment-Lab Demonstration by MW Spence	12:11	1984
14	Air Sampling & Analytical Methods Lectured by LB Coyne	48:48	1984
15	Analytical Standard & Sample Preparation Lectured by LB Coyne	10:35	1984
16	Ventilation Lectured by RW Bohl	49:40	1984
17	Laboratory Fume Hood Evaluation Lectured by RW Bohl	15:15	1984

CHEMICAL SPECIFIC

VIDEO #	VIDEO TITLE	LENGTH	YEAR
43	PCB's Dean Branson "Business World Show		1979

ERGONOMICS

VIDEO #	VIDEO TITLE	LENGTH	YEAR
38	VDTs	10:00	

FIRE SAFETY

VIDEO #	VIDEO TITLE	LENGTH	YEAR
34	Fires and Extinguishers	16:20	

HAZARD COMMUNICATION

VIDEO #	VIDEO TITLE	LENGTH	YEAR
24	Cornerstone of Chemical Safety (MSDS-Expanded)	14:00	1985

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