NYSDOH/USEPA
Asbestos Project Air Sampling Technician Certification Training Course Schedule

Presented By:
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DAY 1 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
15 Minutes	**Registration/Introduction**		
30 Minutes	**History of Use: (Lecture)**	Manual Section 1, Video: *Asbestos: A Matter of Time* (U.S. Bureau of Mines, 1959)	
20 Minutes	**Identification of Asbestos: (Lecture)** • Types and physical characteristics of asbestos including fiber size, aerodynamic characteristics and appearance; • Common uses and applications for asbestos containing products	Manual Section 2, PowerPoint Presentation	
55 Minutes	**Health Effects of Asbestos Exposure: (Lecture)** • Factors affecting disease development including: properties of asbestos; exposure pathways; concentration and duration of exposure and natural defenses; • Clinical signs of exposure based on visible changes in x-rays e.g.: pleural plaques and fibrosis; • Asbestos-related diseases including definitions and concepts of risk, latency, symptoms, diagnosis and treatment; • Health risks to family members of asbestos workers; • Synergism between smoking and asbestos exposure and lack of safe exposure level	Manual Section 3, PowerPoint Presentation	
15 Minutes	**Break**		
45 Minutes	**Current Federal, State and Local Regulations: (Lecture)** • OSHA (29 CFR 1926.1101, 29 CFR 1910.134, 29 CFR 1910.1001) • EPA (AHERA, NESHAP) • New York State (12 NYCRR Part 56)	Manual Section 4, Handouts: Referenced Regulations, PowerPoint Presentation	
30 Minutes	**Respiratory Protection: (Lecture)** • Use of respiratory protection; • Other protective measures; • Good work practices	Manual Section 5, PowerPoint Presentation	
60 Minutes	**Lunch**		

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DAY 1 (Cont.) **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
15 Minutes	**Respiratory Protection: (Lecture) Cont.**	Manual Section 5, PowerPoint Presentation	
30 Minutes	**Protective Clothing: (Lecture)** • Selection, use and handling of personal protective clothing: including disposable and non-disposable clothing, purpose, donning, removal, storage, handling and disposal; • Uses and limitations of PPE e.g.: eye protection, hard hats, hoods, gloves, boots and booties	Manual Section 5, PowerPoint Presentation	
30 Minutes	**Summary of Abatement Control Options: (Lecture)** • Removal, encapsulation, enclosure, repair and an operations and maintenance program	PowerPoint Presentation	
15 Minutes	**Break**		
30 Minutes	**Principles of Asbestos Project Abatement Procedures and Practices: (Lecture)**	PowerPoint Presentation	
30 Minutes	**Decontamination System: (Lecture)** • Sequential steps of workers in clean room, shower room and equipment room; • Direction of air flow through the rooms; • Security of the work area and decon enclosures	Manual Section 6, PowerPoint Presentation	
15 Minutes	**Personal Hygiene: (Lecture)** • Entry/exit procedures for the work area; • Use of showers; • Sanitation	Manual Section 7, PowerPoint Presentation	
45 Minutes	**Other Safety Hazards: (Lecture)** • Electrical Hazards; • Heat related conditions; • Other air contaminants; • Fire and explosion hazards; • Gasoline engines; • Scaffold and ladder hazards and proper use; • Slips, trips and falls; • Confined spaces and entry/exit procedures; • Noise hazards; • Emergency procedures in the event of fire/medical emergencies and failure of containment barriers; • Purpose of entry/exit log	Manual Section 11, PowerPoint Presentation	

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DAY 2 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
30 Minutes	**Purposes and Methods of Asbestos Bulk Sampling, Air Sampling and Analysis: (Lecture)** • Proper methods of collecting bulk samples to minimize airborne fiber generation; • Area and personal air monitoring procedures and requirements under Federal and State regulations; • Types of analysis and interpretation of analytical results including electron microscopy, optical microscopy and requirements under Federal and State regulations; • Proper chain of custody procedures for legally defensible data	Manual Section 12 & 18, Copies of NIOSH 7400 and 7402, PowerPoint Presentations	
60 Minutes	**Protective Clothing and Respiratory Protection: (Hands-on)** Students will: • Practice selecting, donning, doffing, handling, storing & disposing of protective clothing; • Practice selecting, donning, doffing, removing, handling, maintaining & storing respirators; • Perform positive and negative user seal checks;	Hands-on	
30 Minutes	**Decontamination System: (Hands-on)** • Students will go through the correct sequential steps and procedures to enter and exit a work area	Hands-on	
15 Minutes	**Break**		
75 Minutes	**Purposes and Methods of Asbestos Bulk Sampling, Air Sampling and testing: (Hands-on)** • Sampling equipment demonstration including pumps, filters and calibration will be conducted by the instructor; • Students will perform correct procedures for project air sampling including set-up, sampling and proper chain of custody procedures according to all current state and federal regulations	Hands-on	
60 Minutes	**Lunch**		
135 Minutes	**Purposes and Methods of Asbestos Bulk Sampling, Air Sampling and testing: (Hands-on) Cont.**	Hands-on	
15 Minutes	**Break**		
60 Minutes	**Course Exam**		