NYSDOH/USEPA
Asbestos Worker/Handler Certification
Training Course Schedule

Presented By:
Environmental Education Associates, Inc.
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DAY 1 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
15 Minutes	**Registration/Introduction**		
35 Minutes	**History of Use: (Lecture)**	Manual Section 1, Video: *Asbestos: A Matter of Time* (U.S. Bureau of Mines, 1959)	
30 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	
70 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**		
15 Minutes	**Medical Monitoring:(Lecture)** • Requirements for physicals including medical history, pulmonary function test and chest x-ray; • Frequency of exams/medical surveillance; • Employee access to records	Manual Section 3, PowerPoint Presentation	
30 Minutes	**Personal Hygiene: (Lecture)** • Work area entry and exit procedures including sequential steps workers take in clean room, shower room and equipment room; • Use of showers; • Sanitation including avoidance of eating, drinking, smoking and chewing gum/tobacco in work area; • Potential exposures to family and others	Manual Section 7, PowerPoint Presentation	

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

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
60 Minutes	**Lunch**		
60 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	
15 Minutes	**Break**		
90 Minutes	**Employee PPE - Respirators: (Lecture)** • Classes and characteristics of respirator types; • Limitations of respirators and their proper selection, inspection, donning, maintenance and storage • Methods for positive and negative user seal checks; • Qualitative and quantitative fit testing; • Variability between field and laboratory protection factors that alter respirator fit e.g.: facial hair • Components of a proper respiratory protection program; • Requirements regarding personal protective equipment; • Use of rotometer to perform air flow check of a powered air purifying respirator	Manual Section 5, PowerPoint Presentation	
45 Minutes	**Employee PPE - 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	

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DAY 2 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
30 Minutes	**Summary of Abatement Control Options: (Lecture)** • Removal, encapsulation, enclosure, repair and an operations and maintenance program	PowerPoint Presentation	
45 Minutes	**Work Area Preparation: (Lecture)** • Vacate occupants; • Posting of signs; • Pre-cleaning and installing critical and isolation barriers; • Electrical and ventilation systems lock-out; • Pre-cleaning and removal of furniture and equipment; • Pre-cleaning and covering of stationary equipment such as ductwork • Flooring	Manual Section 8, PowerPoint Presentation	
30 Minutes	**Decontamination Systems: (Lecture)** • Current 12 NYCRR Part 56 requirements for decontamination enclosure construction; • Sequential steps for worker use of clean room, shower room and equipment room; • Use of shower filtration system; • Direction of air flow through rooms; • Security of the work area and enclosures; • Purpose and use of entry/exit log	Manual Section 6, PowerPoint Presentation	
15 Minutes	**Break**		
60 Minutes	**Engineering Controls: (Lecture)** • Discussion of how each applies to installation as well as all forms of abatement: • Purpose, construction and maintenance of barriers and decontamination enclosures; • Use of wet methods and surfactants; • Use of negative air pressure ventilation equipment; • Use of HEPA Vacuum cleaners; • Use, maintenance and clean-up of tools; • Good housekeeping such as promptly bagging asbestos debris and other housekeeping; • Use of glove bags; • Emergency procedures for sudden releases; • Potential exposure situations; • Recommended and prohibited work practices	Manual Section 9, PowerPoint Presentation	
30 Minutes	**Proper Clean-up and Disposal: (Lecture)** • Post abatement clean-up procedures and sequence of activities; • Disposal including bagging, drumming, storage and transport; • Daily work area and decontamination enclosure clean-up; • Clean-up of equipment; • Removal of barriers and decon enclosures	Manual Section 10, PowerPoint Presentation	

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DAY 2 (Cont.) **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
60 Minutes	**Lunch**		
15 Minutes	**Purposes and Methods of Asbestos Air Sampling and Testing: (Lecture)** • Procedures to determine airborne concentrations of asbestos fibers with focus on personal air sampling purpose and performance; • Area and personal air monitoring procedures and requirements under federal and state regulations; • Types of analysis and interpretation of analytical results including electron and optical microscopy techniques and federal and state regulatory requirements	Manual Section 12, PowerPoint Presentation	
45 Minutes	**Other Safety Hazards: (Lecture)** • Electrical Hazards including placement of cords to reduce tripping 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	Manual Section 11, PowerPoint Presentation	
15 Minutes	**Break**		
90 Minutes	**Employee PPE – Respirators and Protective Clothing: (Demonstration and Hands-on)** • Practice selecting, donning, removing, handling, storing and disposing of protective clothing; • Practice selecting, donning, removing, handling, maintaining and storing respirators; • Perform positive and negative user seal checks; • Use a rotometer to check air flow of a PAPR; • Instructor will provide various types of respirators for demonstration	Hands-on	
45 Minutes	**Purposes and Methods of Asbestos Air Sampling and Testing: (Demonstration and Hands-on)** • The Instructor will demonstrate how various sampling equipment is used including pumps, filters and calibration; • Area and personal sampling procedures will be demonstrated; • Students will participate in personal sampling	Hands-on	

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DAY 3 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
120 Minutes	**Decontamination System: (Hands-on)** • Students will build a large project sized decon contiguous to the work area per current 12 NYCRR Part 56 specifications	Hands-on	
15 Minutes	**Break**		
45 Minutes	**Decontamination System: (Hands-on) Cont.**	Hands-on	
30 Minutes	**Preparation of the Work Area: (Hands-on)** • Students will prepare a mock abatement work area following 12 NYCRR Part 56 requirements and procedures	Hands-on	
60 Minutes	**Lunch**		
120 Minutes	**Preparation of the Work Area: (Hands-on) Cont.**	Hands-on	
15 Minutes	**Break**		
75 Minutes	**Engineering Controls: (Hands-on)** • Students will remove non-asbestos surfacing material using proper working techniques e.g.: wet methods, surfactant and HEPA vacuums; • Glove bag set-up • Glove bag use to remove non-asbestos insulation from a horizontal pipe, vertical pipe and elbow	Hands-on	

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DAY 4 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
75 Minutes	**Engineering Controls: (Hands-on) Cont.**	Hands-on	
30 Minutes	**Other Safety Hazards: (Hands-on)** • Students will run through other safety hazards that may be found on the worksite and procedures to eliminate them	Hands-on	
15 Minutes	**Break**		
30 Minutes	**Other Safety Hazards: (Hands-on) Cont.**	Hands-on	
60 Minutes	**Proper Clean-up and Disposal: (Hands-on)** • Students will perform and discuss daily clean-up procedures for work area and decons • Perform post abatement clean-up and disposal procedures per current 12 NYCRR Part 56 requirements including bagging/drumming, storage, removal and disposal of waste; clean-up of equipment; removal of barriers and decon enclosures	Hands-on	
60 Minutes	**Lunch**		
60 Minutes	**Proper Clean-up and Disposal: (Hands-on) Cont.**	Hands-on	
45 Minutes	**Case Studies: (Lecture)** • Typical problems and corrective measures	Hand-out: Asbestos Abatement Case Study, Class Discussion	
15 Minutes	**Break**		
30 Minutes	**Course Review**	Handout: Asbestos Review Questions, Student Q&A	
60 Minutes	**Course Exam**		