

**NYSDOH/USEPA
Asbestos Contractor/Supervisor 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: <i>Asbestos: A Matter of Time</i> (U.S. Bureau of Mines, 1959)	
30 Minutes	Identification of Asbestos: (Lecture) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> Requirements for physicals including medical history, pulmonary function test and chest x-ray; Frequency of exams/medical surveillance; Employee access to records; Medical surveillance programs 	Manual Section 3, PowerPoint Presentation	

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DAY 1 (Cont.)

Date:

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
30 Minutes	Personal Hygiene: (Lecture) <ul style="list-style-type: none"> • 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	
60 Minutes	Lunch		
60 Minutes	Current Federal, State and Local Regulations: (Lecture) <ul style="list-style-type: none"> • OSHA (29 CFR 1926.1101, 29 CFR 1910.134, 29 CFR 1910.1001, 29 CFR 1910.1200, 29 CFR 1910.146) • 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) <ul style="list-style-type: none"> • 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 • Breathing air systems including high pressure vs. low pressure, testing for Grade D air and determining proper backup air volumes 	Manual Section 5, PowerPoint Presentation	
45 Minutes	Employee PPE - Protective Clothing: (Lecture) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> Removal, encapsulation, enclosure, repair and an operations and maintenance program 	PowerPoint Presentation		
75 Minutes	State-of-the-Art Work Practices: (Lecture) <ul style="list-style-type: none"> Proper work practices for asbestos abatement activities including descriptions of proper construction and maintenance of barriers and decontamination enclosure systems; Positioning of warning signs; Electrical and ventilation system lockout; Proper working techniques for minimizing fiber release; Use of wet methods; Use of negative pressure ventilation equipment; Use of high efficiency particulate air (HEPA) vacuums; Proper clean-up and disposal procedures; Work practices for removal, encapsulation, enclosure and repair; Emergency procedures for sudden releases; Potential exposure situations; Transport and disposal procedures and recommended and prohibited work practices; Discussion of new abatement-related techniques and methodologies; Proper techniques for initial cleaning; Discussion of glove bag use; Use of a shower water filtration system; Post abatement clean-up procedures and sequence of activities; and Notification of building occupants 	Manual Sections 6, 8, 9 and 10, PowerPoint Presentations		
15 Minutes	Break			
90 Minutes	State-of-the-Art Work Practices: (Lecture) Cont.	Manual Sections 6, 8, 9 and 10, PowerPoint Presentations		

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DAY 2 (Cont.)

Date:

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
60 Minutes	Lunch		
60 Minutes	Air Monitoring: (Lecture) <ul style="list-style-type: none"> • Proper collection of personal air samples; • Procedures to determine airborne concentrations of asbestos fibers, including a description of aggressive sampling, sampling equipment and methods, reasons for air monitoring, types of samples and interpretation of results, specifically from analysis performed by PLM, PCM and TEM analyses; 	Manual Section 12, PowerPoint Presentation	
45 Minutes	Other Safety Hazards: (Lecture) <ul style="list-style-type: none"> • 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; • Review of hazard assessment considerations 	Manual Section 11, PowerPoint Presentation	
15 Minutes	Break		
45 Minutes	Recordkeeping: (Lecture) <ul style="list-style-type: none"> • Records required by Federal, State and Local agencies; • Records recommended for legal and insurance purposes; • Use of a daily logbook to document work area inspections and work activities 	Manual Section 13, PowerPoint Presentation	
45 Minutes	Supervisory Techniques: (Lecture) <ul style="list-style-type: none"> • Supervisory techniques to enforce and reinforce required work practices and discouragement of unsafe work practices; • Use of smoke tubes to test the effectiveness of barriers and decon system under negative air ventilation and glove bag seal testing 	Manual Section 13, PowerPoint Presentation	

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DAY 3

Date:

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
90 Minutes	Employee PPE – Respirators and Protective Clothing: (Demonstration and Hands-on) <ul style="list-style-type: none"> • 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	
30 Minutes	State -of-the-Art Work Practices & Supervisory Techniques: (Hands-on) <ul style="list-style-type: none"> • Students will build a large project sized decon contiguous to the work area per current 12 NYCRR Part 56 specifications; • Students will prepare a mock abatement work area following 12 NYCRR Part 56 requirements and procedures • Use smoke tubes to test the effectiveness of the work area barriers and the decon; • Remove non-asbestos surfacing material using proper working techniques to minimize fiber release; • Set-up glove bag for use; • Use smoke tubes to perform glove bag seal testing; • Use glove bags to remove non-asbestos thermal system insulation from a horizontal pipe, vertical pipe and elbow 	Hands-on	
15 Minutes	Break		
90 Minutes	State-of-the-Art Work Practices & Supervisory Techniques: (Hands-on) Cont.	Hands-on	
60 Minutes	Lunch		
90 Minutes	State -of-the-Art Work Practices & Supervisory Techniques: (Hands-on) Cont.	Hands-on	
15 Minutes	Break		
90 Minutes	State-of-the-Art Work Practices & Supervisory Techniques: (Hands-on) Cont.	Hands-on	

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DAY 4

Date:

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
90 Minutes	State -of-the-Art Work Practices & Supervisory Techniques: (Hands-on) Cont.	Hands-on	
30 Minutes	Other Safety Hazards/Air Monitoring/Recordkeeping/State-of-the-Art Work Practices (Hands-on) <ul style="list-style-type: none"> • Students will run through other safety hazards that may be found on the worksite and procedures to eliminate them; • Collection of personal air samples; • Area air sampling and aggressive sampling procedures; • Use of daily logbook to document work area inspection and work practices • Post abatement clean-up and waste transport and disposal procedures; • Recommended and prohibited work practices 	Hands-on	
15 Minutes	Break		
90 Minutes	Other Safety Hazards/Air Monitoring/Recordkeeping/State-of-the-Art Work Practices (Hands-on) Cont.	Hands-on	
60 Minutes	Lunch		
90 Minutes	Other Safety Hazards/Air Monitoring/Recordkeeping/State-of-the-Art Work Practices: (Hands-on) Cont.	Hands-on	
15 Minutes	Break		
90 Minutes	Other Safety Hazards/Air Monitoring/Recordkeeping/State-of-the-Art Work Practices: (Hands-on) Cont.	Hands-on	

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DAY 5

Date:

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
90 Minutes	Special Projects and Variances: (Lecture) <ul style="list-style-type: none"> • Discussion of ICR-56-11 applicability and requirements • Discussion of use and applicability of Applicable Variances A-1 through A-4, and Fast Track Variances FTV-1 through FTV-10 	Hand-outs: Referenced Variances, Class Discussion	
45 Minutes	Insurance and Legal Liability Issues: (Lecture) <ul style="list-style-type: none"> • Contractor issues; • Worker's compensation coverage and exclusions; • Insurance coverage and exclusions; • Types of liability including third-party liability and defenses; • Bonding 	Manual Section 14, PowerPoint Presentation	
15 Minutes	Break		
45 Minutes	Insurance and Legal Liability Issues (Lecture) Cont.	Manual Section 14, PowerPoint Presentation	
60 Minutes	Lunch		
60 Minutes	Contract Specifications: (Lecture) <ul style="list-style-type: none"> • Discussion of key elements included in contract specs; • Bidding process, submittals and contracts 	Manual Section 14, PowerPoint Presentation	
15 Minutes	Break		
60 Minutes	Course Review	Handout: Asbestos Review Questions, Student Q&A	
90 Minutes	Course Exam		

