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: *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; • 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)** • 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)** • 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)** • 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)** • 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		
75 Minutes	**State-of-the-Art Work Practices: (Lecture)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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)** • 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**		