NYSDOH/USEPA
Asbestos Project Designer 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**		
30 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	
60 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**		
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) • EPA (AHERA, NESHAP) • New York State (12 NYCRR Part 56) • NYS Applicable Variances	Manual Section 4, Handouts: Referenced Regulations, PowerPoint Presentation	
30 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	Manual Section 5, PowerPoint Presentation	

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

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
	checks; • Qualitative and quantitative fit testing; • Variability between field and laboratory protection and factors that alter respirator fit e.g.: facial hair • Components of a proper respiratory protection program		
60 Minutes	**Lunch**		
30 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	
45 Minutes	**Other Safety Hazards: (Lecture)** • Electrical Hazards; • Heat related conditions; • Other air contaminants; • Fire and explosion hazards; • Scaffold and ladder hazards and proper use; • Confined spaces; • Slips, trips and falls	Manual Section 11, PowerPoint Presentation	
15 Minutes	**Break**		
30 Minutes	**Summary of Abatement Control Options: (Lecture)** • Removal, encapsulation, enclosure, repair and an operations and maintenance program	PowerPoint Presentation	
60 Minutes	**Overview of Abatement Projects: (Lecture)** • Abatement as a portion of a renovation project; • Notification of other contractors on a multi-employer site	Manual Section 20	

DAY 2 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
30 Minutes	**Role of Other Consultants: (Lecture)** • Development of technical specification sections by industrial hygienists or engineers; • Multidisciplinary team approach to abatement design	Manual Section 22	
90 Minutes	**Safety System Design Specifications: (Lecture)** • Design, construction and maintenance of containment barriers and decontamination enclosures; • Positioning of warning signs; • Electrical and ventilation system lock-out; • Minimizing fiber release; • Work area entry/exit procedures;	Manual Sections 6-10, PowerPoint Presentations, Glove bag Demonstration	

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

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
	• Use of wet methods; • Use of negative pressure exhaust ventilation equipment; • Use of HEPA vacuums; • Proper clean-up and disposal; • Encapsulation, enclosure and repair work practices; • Use of glove bags and a demonstration of glove bag use; • Techniques for initial cleaning of the work area		
15 Minutes	**Break**		
30 Minutes	**Fiber Aerodynamics and Control: (Lecture)** • Aerodynamic characteristics of asbestos fibers; • Importance of proper containment barriers; • Settling time for asbestos fibers; • Wet methods; • Aggressive air monitoring following abatement; • Aggressive air movement and negative pressure ventilation as a clean-up method	Manual Section 9, PowerPoint Presentation	
45 Minutes	**Occupied Buildings: (Lecture)** • Special design considerations required for occupied buildings; • Education of occupants; • Additional monitoring recommendations; • Staging work to minimize exposures; • Scheduling of renovations to minimize exposures	Manual Section 26, PowerPoint Presentation	
60 Minutes	**Lunch**		
30 Minutes	**Designing Abatement Solutions: (Lecture)** • Discussions of removal, enclosure and encapsulation methods; • Asbestos waste disposal	Discussion, PowerPoint Presentation	
45 Minutes	**Budgeting/Cost Estimation** • Development of cost estimates; • Present costs of abatement vs. future operations and maintenance costs; • Setting priorities for abatement projects to reduce costs	Manual Section 25, PowerPoint Presentation	
30 Minutes	**Writing Abatement Specifications: (Lecture)** • Prescriptive vs. performance specifications; • Design of abatement in occupied buildings; • Modification of guide specifications to a particular building; • Worker and building occupant health/medical considerations; • Replacement of ACM with non-ACM; • Post abatement clearance and air monitoring of work area; • Preparation of and need for written project design	Manual Section 23, PowerPoint Presentation	
15 Minutes	**Break**		

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

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
45 Minutes	**Writing Abatement Specifications: (Lecture) Cont.**	Manual Section 23, PowerPoint Presentation	
45 Minutes	**Final Clearance Process for Re-occupancy: (Lecture)** • Discussion of the need for a written sampling rationale for aggressive final clearance; • Requirements of a visual inspection; • The relationship of visual inspection to clearance air sampling	Discussion, Handout: ASTM E-1368	

DAY 3 **Date:**

Time Allotment	Topic	Method(s) of Instruction	Instructor(s)
30 Minutes	**Replacement: (Lecture)** • Replacement of ACM with asbestos-free substitutes	Manual Section 23	
60 Minutes	**Preparing Abatement Drawings: (Lecture)** • Significance and need for drawings; • Use of as-built drawings as base drawings; • Use of inspection photographs and on-site reports; • Methods of preparing abatement drawings; • Diagramming containment barriers; • Relationship of drawings to specifications; • Problems related to abatement drawings	Manual Section 24, PowerPoint Presentation	
15 Minutes	**Break**		
45 Minutes	**Employee Personal Protective Equipment and Clothing: (Hands-on)** • Practice selecting, donning, doffing, handling, storing and disposal of protective clothing; • Practice selecting, donning, doffing, handling, maintaining and storing respirators; • Perform positive and negative user seal checks	Hands-on	
60 Minutes	**Field Trip: (Hands-on)** • Visit an abatement site or other suitable building site; • On-site discussions of abatement design and rationale for the concept of functional spaces; • Building walk-through inspection followed by discussion	Hands-on	
60 Minutes	**Lunch**		

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DAY 3 (Cont.) **Date:**

30 Minutes	**Contract Preparation and Administration: (Lecture)**	Manual Section 14	
45 Minutes	**Legal Liabilities/Defenses: (Lecture)** • Insurance and bonding; • Hold-harmless clauses • Use of contractor's liability insurance; • Claims made vs. occurrence policies	Manual Section 14, PowerPoint Presentation	
30 Minutes	**Course Review**	Handout: Asbestos Review Questions, Student Q&A	
15 Minutes	**Break**		
90 Minutes	**Course Exam**		