1	CHAPTER 20.
2	VIRGINIA ASBESTOS LICENSING REGULATIONS.
3	
4	PART I.
5	SCOPE.
6	
7	18 VAC 15-20-10. Scope.
8	10 1110 10 20 101 Scoper
9	The purpose of this section is to identify those individuals and firms in the asbestos
10	industry who need a specific Virginia asbestos license to be licensed. The following lists the
11	types of asbestos license and those required to be licensed.
12	types of assestos needse and those required to be needsed.
13	Ashestes Contractor's Licenses Described for companies that firms that contract with
	Asbestos Contractor's License: Required for companies that firms that contract with
14	another person, for compensation, to carry out an asbestos abatement project, that exceeds 10
15	linear or 10 square feet. Asbestos RFS Contractors License: Required for companies
16	that contract with another person, for compensation, to remove nonfriable asbestos
17	containing roofing, flooring, or siding. This material must remain nonfriable during the
18	entire removal process. Employees of RFS contractors are not required to be licensed,
19	however, they must have RFS training specific to the type of nonfriable asbestos containing
20	material they remove (roofing, flooring, or siding).
21	
22	Asbestos Worker's License: Required for those individuals who remove or otherwise
23	engage in an asbestos project.*
24	
25	Asbestos Supervisor's License: Required for those individuals who supervise an
26	asbestos abatement project. The Commonwealth of Virginia National Emission Standards
27	for Hazardous Air Pollutants (NESHAP) Program recognizes the "competent person" as an
28	individual licensed under this classification.*
29	
30	Asbestos Building Inspector's License: Required for those individuals who inspect
31	buildings to identify, classify, record, sample, test and prioritize by exposure potential
32	asbestos-containing material.*
33	
34	RFS Inspector License: Required for those who identify the presence of asbestos-
35	containing roofing, flooring or siding material through sampling and interpretation of testing
36	reports prepared by a licensed asbestos analytical laboratory.
37	
38	Asbestos Management Planner's License: Required for those individuals who
39	prepare or update an asbestos management plan.*
40	propure or uponio un accessos management primi
10	
41	Asbestos Project Monitor's License: Required for those individuals who act as a
42	project monitor on asbestos abatement sites. Project monitors who analyze PCM Phase
43	Contrast Microscopy (PCM) asbestos air samples on an asbestos abatement project must
44	shall be employed by a firm that holds a valid Virginia Asbestos Analytical Laboratory
45	license, and shall have National Institute of Occupational Safety and Health (NIOSH) 582
	,

1	training, or equivalent [as approved by the American Industrial Hygiene Association
2	(AIHA)].
3	
4	Asbestos Analytical Laboratory License: Required for laboratories who that analyze
5	air or bulk samples for the presence of asbestos by PLM Polarized Light Microscopy (PLM)
6	PCM, or <del>TEM</del> Transmission Electron Microscopy (TEM).
7	Terri, of TERRI Transmission Electron Friendscopy (TERR).
8	Asbestos Project Designer's License: Required for those individuals who prepare or
9	update an asbestos abatement project design, specifications for asbestos abatement projects,
10	and addenda to the specifications.*
11	and addenda to the specifications.
12	Accredited Asbestos Training Program: Required for those who offer asbestos
13	training programs to individuals seeking licensure as an asbestos worker, supervisor,
14	inspector, management planner, project monitor or project designer.
15	inspector, management planner, project mointor or project designer.
16	* Employees who conduct asbestos response actions, inspections, prepare
17	management plans or project designs for their employer, on property owned or leased by the
18	employer, are exempt from Virginia asbestos licensure; however, they are required to meet
19	all [OSHA and] EPA training requirements.
	an [OSTA and] EFA training requirements.
20	PART II.
21	
22	DEFINITIONS AND GENERAL.
23	10 VAC 15 20 20 Definitions
24	18 VAC 15-20-20. Definitions.
25	
26	The following words and terms, when used in this chapter, shall have the following
27	meanings, unless the context clearly indicates otherwise:
28	
29	"AAR" means Asbestos Analyst Registry.
30	
31	"AAT" means Asbestos Analyst Testing.
32	
33	"Accredited asbestos training program" means a training program that has been
34	approved by the board to provide training for individuals to engage in asbestos abatement,
35	conduct asbestos inspections, prepare management plans, prepare project designs or act as a
36	project monitor.
37	
38	"Accredited asbestos training provider" means a firm or individual who has been
39	approved by the board to offer an accredited asbestos training program.
40	
41	"ACM" means asbestos containing material.
42	
43	"AHERA" means Asbestos Hazard Emergency Response Act. 40 CFR 763, Subpart
44	E.
45	
46	"AIHA" means American Industrial Hygiene Association.

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2	"Approval letter" means a written notice confirming the firm or individual applicant's
3	licensure or accreditation by the board.
4 5	"A shortest manne the ashortiform varieties of activality amonity anthorbyllity
5 6	"Asbestos" means the asbestiform varieties of actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. any material containing more than 1.0% asbestos by
7	area as determined by microscopy.*
8	area as determined by finctoscopy.
9	"Asbestos Analytical Laboratory License" means an authorization issued by the
10	department board to perform phase contrast, polarized light, or transmission electron
11	microscopy on material known or suspected to contain asbestos.*
12	inicroscopy on material known of suspected to contain aspestos.—
13	"Asbestos contractor" means any person who has met the board's requirements and
14	has been issued an asbestos contractor's license by the board to enter into contracts to
15	perform asbestos projects.
16	perform aspestos projects.
17	"Asbestos Contractor's License" means an authorization issued by the department
18	board permitting a person to enter into contracts to perform an asbestos abatement project.*
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20	"Asbestos containing material" or "ACM" means any material or product which
21	contains more than 1.0% asbestos or such percentage as established by EPA final rule.by area
22	as determined by microscopy
23	
24	"Asbestos inspector" means any person who performs an on site investigation to
25	identify, classify, record, sample, test and prioritize by exposure potential asbestos-
26	containing materials an inspection as defined in this chapter.
27	
28	"Asbestos Inspector's License" means an authorization issued by the department
29	<u>board</u> permitting a person to perform on-site investigations to identify, classify, record,
30	sample, test and prioritize by exposure, potential asbestos-containing materials.*
31	
32	"Asbestos Management Plan" means a program designed to control or abate any
33	potential risk to human health from asbestos.*
34	
35	"Asbestos management planner" means any person preparing or updating a
36	management plan.
37	
38	"Asbestos Management Planner's License" means an authorization issued by the
39	department board permitting a person to develop or alter prepare or update an asbestos
40	management plan.*
41 42	"A shartos project" or "ashartos abatament project" manos en activity involving ich
42	"Asbestos project" or "asbestos abatement project" means an activity involving job set-up for containment, removal, encapsulation, enclosure, encasement, renovation, repair,
44	construction or alteration of asbestos[-]containing materials. An asbestos project or asbestos
45	abatement project shall not include nonfriable asbestos containing roofing, flooring and
TJ	abatement project shan not metade nontriable aspestos containing rooting, mooting and

siding material which when installed, encapsulated or removed does not become friable.\*

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2	"Asbestos project design" means any descriptive form written as instructions or
3	drafted as a plan describing the construction of an asbestos abatement area or site, response
4	action or work practices to be utilized on the asbestos abatement project.
5	
6	"Asbestos project designer" means any person providing an asbestos project design
7	or specifications for an asbestos abatement project.
8	
9	"Asbestos Project Designer's License" means an authorization issued by the
10	department board permitting a person to design an asbestos abatement project.*
11	department board permitting a person to design an assessos asatement project.
12	"Asbestos project monitor" means any person hired by a building owner, lessee or
13	· · · · · · · · · · · · · · · · · · ·
	his agent to monitor, inspect, provide visual clearance or clearance monitoring of an asbestos
14	abatement project.
15	
16	"Asbestos Project Monitor's License" means an authorization issued by the
17	department board permitting a person to monitor an asbestos project, subject to department
18	<u>board</u> regulations.*
19	
20	"Asbestos supervisor" means any person so designated by an asbestos contractor who
21	provides on-site supervision and direction to the workers engaged in asbestos projects.*
22	
23	"Asbestos Supervisor's License" means an authorization issued by the department
24	board permitting an individual to supervise and work on an asbestos project.
25	<u></u>
26	"Asbestos worker" means any person who engages in an asbestos abatement activity
27	project.
28	project.
29	"Asbestos Worker's License" means an authorization issued by the department-board
	• • • • • • • • • • • • • • • • • • • •
30	permitting an individual to work on an asbestos project.*
31	HACITADAH A1 COLUMN IAI COLUMN IAI COMP
32	"ASHARA" means Asbestos School Hazard Abatement Reauthorization Act, 40 CFR
33	Part 763, Subpart E.
34	
35	"Board" means the Virginia Asbestos Licensing Board Board for Asbestos, Lead[,]
36	and Home Inspectors.
37	
38	"Department" means the Department of Professional and Occupational Regulation.*
39	
40	"Demolition" means the wrecking or taking out of any load-supporting structural
41	member of a structure or solid barrier which is known to contain or be enclosing an asbestos-
42	containing material.
43	voluments multiple
44	"Director" means the Director of the Department of Professional and Occupational
45	Regulation.*

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"Direct supervision" means a licensed or accredited inspector, management planner, project monitor or project designer, who undertakes to supervise the activities of an unlicensed inspector, management planner, project monitor or project designer, shall be physically present on the premises at all times while any unlicensed inspector, management planner, project monitor or project designer under his supervision is engaged in the activities of an inspector, management planner, project monitor or project designer.

"Employee" means all persons in the service of another under any contract of hire, express or implied, oral or written.

"Encapsulation" means the treatment of asbestos containing material asbestos containing material (ACM) with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

"Encasement" means any process by which an asbestos containing material asbestos containing material (ACM) is sprayed with an insulating sealer which is then mechanically fastened to the asbestos covered substrate. The insulating sealer is then covered with a sealer to give structural strength and durability.

"Enclosure" means the construction or installation over or around the ACM asbestos containing material (ACM) of any leak tight solid or flexible coverings, which will not deteriorate or decompose for an extended period of time, so as to conceal the ACM, contain ACM fibers, and render the ACM inaccessible.

"Environmental remediation activity" means any activity planned or carried out for the purpose of reducing or eliminating any environmental hazard, including activities necessary to train individuals in the proper or lawful conduct of such activities which are regulated by federal or state law or regulation.

## "EPA" means United States Environmental Protection Agency.

"Financial interest" means financial benefit accruing to an individual officer or an employee or to a member of his immediate family. Such interest shall exist by reason of (i) ownership in a business if the ownership exceeds 3.0% of the total equity of the business; (ii) annual gross income that exceeds, or may be reasonably anticipated to exceed, \$1,000 from ownership in real or personal property or a business; (iii) salary, other compensation, fringe benefits, or benefits from the use of property, or any combination of it, paid or provided by a business that exceeds or may be reasonably expected to exceed \$1,000 annually.; (iv) ownership of real or personal property if the interest exceeds \$1,000 in value and excluding ownership in business, income, salary, other compensation, fringe benefits or benefits from the use of property.

"Friable" means that the material when dry, may be crumbled, pulverized or reduced to powder by hand pressure and includes previously nonfriable material after such previously

1 2	nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.*
3	purverized, or reduced to powder by hand pressure.
4	"Full approval" means approval given to a training provider for a course that has met
5	the requirements of this chapter.
6	
7	"Guest instructor" means an instructor who is invited to instruct a specific topic or
8	topics in an accredited asbestos training program and whose instruction is limited to two
9	hours per day.
10	
11	"Hands-on experience" means the physical participation of students in an asbestos
12	training class program. The physical participation includes mock sampling and inspection
13	techniques, report preparation, writing project specifications, glovebag demonstrations and
14	containment construction.
15	
16	"Immediate family" means (i) a spouse, (ii) a sibling or step sibling, (iii) a parent or
17	step parent, (iv) children or step children, and or (v) any other person residing in the same
18	household as the individual officer or employee.
19	
20	"Inspection" means an activity undertaken to determine the presence or location, or
21	to access the condition of, friable or nonfriable asbestos containing material (ACM) or
22	suspected ACM, whether by visual or physical examination, or by collecting samples of such
23	material. This term includes reinspections of friable and nonfriable known or assumed ACM
24	which has been previously identified. The term does not include the following:
25	
26	1. Periodic surveillance of the type described in 40 CFR 763.92(b) solely for the
27	purpose of recording or reporting a change in the condition of known or assumed
28	ACM;
29	
30	2. Inspections performed by employees or agents of federal, state, or local
31	government[s] solely for the purpose of determining compliance with applicable
32	statutes or regulations; or
33 34	2. Visual inspections solely for the number of determining completion of manages
	3. Visual inspections solely for the purpose of determining completion of response
35 36	actions.
37	"Instructor" means a person who instructs one or more accredited asbestos training
38	programs, to include the principal instructor, but excluding guest instructors.
39	programs, to include the principal instructor, but excluding guest instructors.
40	"Local education agency" or "LEA" shall have the meaning provided in the USEPA
41	AHERA regulations set forth in 40 CFR 763.*
42	A TILITA I TO GUILLOUID SOL TOTAL III TO GUILLOUS.
43	"NIOSH" means National Institute of Occupational Safety and Health.
44	1.10311 means radional montate of occupational balety and reduct.
45	"NIST" means National Institute of Standards and Technology.
46	1.22 1 Means I ansonar Institute of Standards and Teennology.

1	"NVLAP" means National Voluntary Laboratory Accreditation Program.
2	
3	"Occupied" means any area of any building designed or intended for human
4	habitation occupancy for any purpose.
5	nation occupancy for any purpose.
6	"Officer" means any person appointed, elected or hired by any company, whether or
7	not he receives compensation or any other emolument of office.
	not he receives compensation of any other emorament or office.
8 9	"OCIIA" many the IIC Department of Labor Occupational Cafety and Health
	"OSHA" means the U.S. Department of Labor Occupational Safety and Health
10	Administration.
11	[#OCIIA Class III Washed and an internal and
12	["OSHA Class III Work" means repair and maintenance operations, where asbestos
13	containing material (ACM), including thermal system insulation and surfacing material, is
14	likely to be disturbed.]
15	
16	"PAT" means Proficiency Analytical Testing.
17	
18	"Person" means a corporation, partnership, sole proprietorship, firm, enterprise,
19	franchise, association or any other individual or entity.*
20	
21	"Preliminary review" means a review conducted by the board department following
22	the submission of training materials to ascertain if the proposed [asbestos] training course
23	<u>program</u> meets the standards established by these regulations this chapter.
24	
25	"Primary instructor" "Principal instructor" means an instructor whose main
26	responsibility is to instruct courses accredited asbestos training programs, supervise other
27	instructors and manage the overall course [asbestos] training [course program] curriculum.*
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29	"PCM" means phase contrast microscopy.
30	
31	"PLM" means polarized light microscopy.
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33	"RFS Contractor's License" means an authorization issued by the department
34	permitting a person to enter into contracts to install, remove or encapsulate nonfriable
35	asbestos containing roofing, flooring and siding materials.
36	assesses containing rooming, mooring and staing materials.
37	"RFS inspector" means any person performing on site investigations to identify,
38	classify, record or sample suspect asbestos containing roofing, flooring or siding materials.
39	classify, record of sample suspect assestos containing footing, frooting of siding materials.
	"DEC Inspector's License" an authorization issued by the department authorizing a
40	"RFS Inspector's License" an authorization issued by the department authorizing a
41	person to identify the presence of asbestos containing roofing, flooring or siding material
42	through sampling and interpretation of testing reports prepared by a licensed asbestos
43	analytical laboratory.*
44	
45	"Removal" means the physical removal of ACM asbestos containing material (ACM)
46	and disposal of it in accordance with all applicable regulations.

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"Renovation" means altering in any way, one or more facility components.

"Repair" means returning damaged ACM <u>asbestos containing material (ACM)</u> to an undamaged condition or to an intact state so as to prevent fiber release.

"Residential buildings" means site-built homes, modular homes, condominium units, mobile homes, manufactured housing, and duplexes, or other multi-unit dwellings consisting of four units or less fewer that are currently in use or intended for use only for residential purposes.

"Response action" means any method, including removal, encapsulation, enclosure or encasement that remediates an enclosure, encasement, or operation and maintenance, that protects human health and the environment from friable asbestos[-]containing material.

"Site" means an area established by the employer or contractor to demarcate areas where the airborne concentration of asbestos exceeds or can reasonably be expected to exceed the permissible exposure limit. The area may take the form of a temporary enclosure as defined by 29 CFR 1926.58(e)(6) or be demarcated in any manner which restricts employees from entering the area.

["Small-scale, short duration" (SSSD) means activities involving the removal of three linear or three square feet or less of friable asbestos containing material (ACM) if required in the performance of another maintenance activity, replacement of asbestos containing gaskets, installation, repair or other maintenance work through or proximate to ACM.]

"Structure" means any building or load supporting framework whether fixed or portable utilized for occupancy, storage, or conveyance of public utilities or industrial materials.

"Substantial change" means a change in overall <u>course curriculum [asbestos] training program</u>, materials, [<u>primary principal</u>] instructors, [<u>training managers</u>,] directors, ownership, facilities, equipment, examinations, and certificates of completion. The addition of updated regulations, exam questions or news articles shall not be considered a substantial change.

"TEM" means transmission electron microscopy.

["Training manager" means the individual responsible for administering a training program and monitoring the performance of the instructors.]

"USEPA" means United States Environmental Protection Agency.

"Visual inspection" means a process of looking for conditions, which if not corrected during the asbestos abatement project, will lead to residual asbestos-containing dust or debris. Visual inspection includes examination of an asbestos abatement project area prior to

1 clearance air monitoring for evidence that the project has been successfully completed as 2 indicated by the absence of residue, dust and debris. 3 4 \* Cited from § 54.1-500 of the Code of Virginia 5 6 18 VAC 15-20-21. Waiver of the requirements of this chapter. 7 8 Except as required by law, the board may, in its reasonable discretion, waive any of 9 the requirements of this chapter when in its judgment it finds that the waiver in no way 10 lessens the protection provided by this chapter and Title 54.1 of the Code of Virginia to the public health, safety and welfare. The burden of proof which demonstrates continued public 11 12 protection rests with the party requesting the waiver. Documents referenced are in effect as 13 they existed as of the date the act or action has occurred. 14 15 PART III. 16 GENERAL ENTRY AND RENEWAL REQUIREMENTS. 17 18 18 VAC 15-20-30. License application. 19 20 A. Individual and business applicants are responsible for obtaining a current application. All requests for applications should be directed to: Application for 21 22 asbestos licensure shall be made on forms provided by the department. 23 24 **Assistant Director** 25 Virginia Board for Asbestos Licensing 26 Virginia Department of Professional and Occupational Regulation 27 3600 West Broad Street 28 Richmond, Virginia 23230 29 30 B. Each individual applicant shall be at least 18 years of age. 31 32 B. C Individuals Each individual applying for initial licensure as a supervisor, 33 inspector, management planner, project designer or project monitor shall provide 34 proof evidence of successful completion of an EPA/AHERA or board-approved 35 initial [accredited] asbestos training course program and all subsequent EPA/AHERA or board-approved [accredited asbestos] refresher [courses training 36 37 programs], relevant to the applicant's discipline. If, at any time, there has been a 38 lapse of AHERA accreditation of more than 24 months, the applicant must show 39 successful completion within the past 12 months of an EPA/AHERA or board 40 approved initial asbestos training course, relevant to the applicants discipline [The 41 date of training completion shall be no later than 12 months before the date the 42 <del>department receives the application.</del> The training certificate must indicate that the

training was taken within 12 months preceding the date the department receives

the application.]

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- 1 D. Each individual applying for initial licensure as a worker shall provide proof of successful completion of (i) an EPA/AHERA or board-approved initial 2 3 [accredited] asbestos worker training program and all subsequent EPA/AHERA or 4 board-approved [accredited] asbestos worker refresher training program[s] or (ii) 5 proof of successful completion of an EPA/AHERA or board-approved initial 6 [accredited] supervisor [course asbestos training program] and all subsequent 7 EPA/AHERA or board-approved[accredited asbestos] supervisor refresher training 8 program[s]. [The date of training completion shall be no later than 12 months 9 before the date the department receives the application. The training certificate 10 must indicate that the training was taken within 12 months preceding the date the department receives the application.] 11 12 13 E. Each applicant for licensure as an asbestos contractor shall submit a completed 14 asbestos contractor[s] application to the department. 15 16 F. Each applicant for licensure as an asbestos analytical laboratory shall submit a 17 completed asbestos analytical laboratory application and all documents required by 18 this chapter to the department. 19 20 G. Each applicant for approval as an accredited asbestos training program shall 21 submit to the board a completed accredited asbestos training program application 22 and all documents required by this chapter. 23 24 C.H. Each application for a license shall be signed by the applicant and shall include 25 a certification, by the applicant, [that within three years prior to the application 26 date, the applicant's license or other authorization to perform asbestos related 27 work has not been suspended or revoked by any jurisdiction and that no 28 enforcement action by any jurisdiction is pending against the applicant. 29 30 D. I. In the event disciplinary actions have been taken against the applicant, in any 31 jurisdiction, the applicant shall submit the following information, as the board may 32 deny an applicant's request for a license based on prior disciplinary actions which 33 indicate that the asbestos related work may not be performed in a manner that 34 would protect the public health, safety and welfare: 35 36
  - 1. A complete list of all prior disciplinary actions, including any sanctions imposed on the applicant by any jurisdiction or any state or federal court.
  - 2. A description of any asbestos abatement or inspection activities, or both, conducted by the applicant that were terminated prior to completion, including the circumstances of the termination.
  - 3. A copy of all reports compiled by the enforcement agency or a copy of a final report.

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	FINAL ASBESTOS REGULATION Page 11 of 97
1	E.J. All Each application shall be completed according to the instructions provided by
2	the department with the application. Incomplete applications will be returned to the
3	applicant; fees received will shall not be refunded. Applicants who submit checks
4	which are dishonored by the institution on which they are drawn shall pay a \$25
5	service fee in addition to the application fee required by this chapter.
6	
7	18 VAC 15-20-40. Experience and Education[al] Verification Forms (Form A).
8	
9	Each application for inspector, management planner, project monitor and project
10	designer shall include an Experience and Education Verification Form (Form A) completed
11	by the applicant and signed by a supervisor verifying the job description of the applicant
12	during the term of employment. Form A The form shall contain the name and address of the
13	employer, a complete and concise job description, a job title, the dates of employment or
14	dates of work performed and the signature, typewritten or printed name, address and phone
15	number of the supervisor verifying the experience. In lieu of a verifying signature for
16	experience, an applicant who is self employed may submit a copy of three completed
17	inspections, management plans, project designs or project monitor reports, whichever is
18	applicable. [A letter from a supervisor verifying the experience may be submitted in lieu of
19	the Experience Verification Form.] If verification of a degree is required, the [Degree
20	Education] V-verification F-form must shall be sent directly from the school to the department.
21	An incomplete Form A will be returned to the applicant with an explanation for the return,
22	and will constitute an incomplete application for licensure. Form A may be resubmitted
23	following completion by the applicant [A letter from a supervisor verifying the experience
24	may be submitted in lieu of the Experience Verification Form.]
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18 VAC 15-20-50. Fees.

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A. The fee for an initial application for or a renewal of an asbestos worker, supervisor, inspector, RFS inspector, management planner, project designer, or project monitor license shall be \$25.

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B. The renewal fee for [individual licenses an asbestos worker, supervisor, inspector, management planner, project designer, or project monitor license] not renewed within 30 days after its the noted expiration date shall be \$50.

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C. The fee for an initial application for or a renewal of an Aasbestos Aanalytical Llaboratory Llicense shall be \$40.

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D. The renewal fee for Aasbestos Aanalytical-Llaboratory Llicenses not renewed within 30 days after the its noted expiration date shall be \$65.

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E. The fee for an initial application for or a renewal of an Aasbestos Contractor's License and RFS Asbestos Contractor Llicense shall be \$40.

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F. The renewal fee for Aasbestos Ccontractor Llicenses or RFS Contractors Licenses not renewed within 30 days after the its noted expiration date shall be \$65.

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2	G. The fee for an initial application for approval of an accredited asbestos training
3	program shall be \$400 per day of training.
4	
5	H. The renewal fee for an accredited asbestos training program shall be \$50 [per
6	training provider].
7	
8	I. The renewal fee for accredited asbestos training programs not renewed within 30
9	days after its expiration date shall be \$75 [per training provider].
10	
11	G. J. A license not renewed within six months after the expiration date printed on the
12	license shall not be renewed and the <u>person</u> licensee shall apply for a new license.
13	
14	K. All checks or money orders shall be made payable to the Treasurer of Virginia.
15	
16	H. [L.] Applicants [Persons who submit a dishonored check will be charged a \$25
17	service fee in addition to the required application fee.]
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19	M. Fees received shall not be refunded.
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21	18 VAC 15-20-60. Expiration.
22	
23	A. All Each individual asbestos licenses license issued under this chapter shall expire
24	one year from the last day of the month in which they are issued as indicated on
25	the license [in which it was issued wherein the applicant's initial training or most
26	recent refresher training required by 18 VAC 15-20-30 was completed].
27	
28	B. Each asbestos contractor and each asbestos analytical laboratory license issued
29	under this chapter shall expire one year from the last day of the month in which it
30	was issued.
31 32	C. Each accordited ashestes training program approved prior to [the affective data of
33	C. Each accredited asbestos training program approved prior to [the effective date of these regulations] shall expire 24 months from the last day of the month [of [the
34	effective date of these regulations in which it was approved and may be renewed
35	for 24 months at a time thereafter. Each accredited asbestos training program
36	approved after [the effective date of these regulations] shall expire 24 months from
37	the last day of the month in which it was approved.
38	the last day of the month in which it was approved.
39	18 VAC 15-20-70. Renewal application.
40	To The 10 20 701 Renewal application.
41	A. The department will shall mail a renewal notice to the each licensee and to each
42	approved accredited asbestos training program at the last known address. The
43	notice shall outline the procedures for renewal and the renewal fee amount.
44	Failure to receive the notice shall not relieve the licensee or the approved
45	accredited asbestos training program of the obligation to renew in a timely fashion.
46	

- FINAL ASBESTOS REGULATION Page 13 of 97 1 B. Prior to the expiration date shown on the license or approval letter, each licensee 2 licensed asbestos contractor, licensed asbestos analytical laboratory and approved 3 accredited asbestos training program desiring to renew the license or approval shall 4 return to the board the renewal notice and appropriate fee to the department. 5 Should the licensee fail to receive the renewal notice, a copy of the current license 6 may be submitted with the required fee. Should an approved accredited asbestos 7 training program fail to receive the renewal notice, a letter indicating the desire to 8 renew and the applicable fee may be submitted. 9 10 C. For individual licenses, only asbestos refresher training courses approved by the board shall meet the training requirement for license renewal. Prior to the 11 12 expiration date shown on the individual's current license, the individual desiring to 13 renew that license shall provide evidence of meeting the annual refresher training 14 requirement for license renewal and the appropriate fee. [Asbestos refresher 15 courses training programs approved by the USEPA under AHERA Regulations 16 will not fulfill the renewal requirements unless the course training program is also 17 a Virginia board-approved asbestos refresher training course program.] [The 18 Board will accept any asbestos training programs that are approved by 19 EPA/AHERA or the board.] All refresher courses must be discipline specific. 20 Applicants for renewal shall forward proof that the annual retraining requirements and an examination has been successfully completed. A copy of the training 21 22 certificate meeting the requirements outlined in 18 VAC 15-20-500 of this chapter 23 shall accompany the renewal eard notice and fee. 24 25 26 27 28 29
  - D. Project monitors who also hold a valid Virginia asbestos supervisor or project designer license may meet the renewal training requirements by completing the supervisor refresher or project designer refresher, whichever is applicable. Project monitors who hold only a project monitor license shall complete an accredited asbestos project monitor refresher training program to meet the renewal training requirements.
  - E. Annual refresher training certificates shall only be used once to renew an individual license.
  - D. F. If the renewal fee is not received by the department within 30 days after the expiration date noted on the license, a late renewal fee shall be required in addition to the renewal fee as stated in 18 VAC 15-20-50 Each license and each accredited asbestos training program approval that is not renewed within 30 days of the expiration date on the license or [accreditation approval] shall be subject to late fees as established in 18 VAC 15-20-50.
  - E. G. Licensees failing to renew their licenses within six months after the expiration date noted on the license shall not be permitted to renew their licenses and shall apply as new applicants. Applicants shall reapply in accordance with Part III of this chapter. Each license and each approved accredited asbestos training program not renewed within six months after the expiration date shall not be renewed and

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1	the licensee or approved accredited asbestos training program shall apply for a new
2	license or new approval.
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4	18 VAC 15-20-80. Change of address or name.
5	
6	All Each licensees and approved accredited asbestos training program shall notify the
7	board, in writing, of any change of address or name. This notification shall be sent to the
8	board within 30 days of such relocation or name change.
9	
10	PART IV.
11	ASBESTOS WORKER <del>AND SUPERVISOR</del> LICENSING REQUIREMENTS.
12	
13	18 VAC 15-20-90. Qualifications for licensure.
14	
15	Each individual applying to the board for licensure as an asbestos worker or asbestos
16	supervisor shall have the following qualifications: shall submit a completed application, all
17	training documentation as required by 18 VAC 15-20-30 D and the appropriate fee as
18	required by 18 VAC 15-20-50.
19	
20	1. Applicants shall be at least 18 years of age.
21	• •
22	2. Applicants shall provide all evidence of completion of an EPA/AHERA approved
23	training course as per 18 VAC 15-20-30 B.
24	
25	18 VAC 15-20-100. Completed application.
26	1 11
27	A completed application, as defined in 18 VAC 15-20-30, shall be accompanied by
28	the required fee. All checks or money orders shall be made payable to the Treasurer of
29	Virginia. No application will be processed if it is not accompanied by the required fee.
30	
31	PART V.
32	ASBESTOS SUPERVISOR LICENSING REQUIREMENTS.
33	
34	18 VAC 15-20-101. Qualifications for licensure.
35	
36	Each individual applying to the board for licensure as an asbestos supervisor shall
37	submit a completed application, all training documentation as required by 18 VAC 15-20-30
38	C and the appropriate fee as required by 18 VAC 15-20-50.
39	<u> </u>
40	<del>PART V</del> PART VI.
41	ASBESTOS CONTRACTOR LICENSING REQUIREMENTS.
42	
43	18 VAC 15-20-110. Qualifications for licensure.
44	

1 2	Applicants shall have all occupational or professional licenses as required by state statute or local ordinance to transact the business of an asbestos contractor in addition to the
3 4	requirements in this chapter.
5 6 7	A. Each applicant shall submit a completed asbestos contractor application and fee as required by 18 VAC 15-20-50.
8 9 10 11	B. Each applicant shall hold a valid Virginia contractor license with an asbestos specialty and shall be in compliance with all other requirements found in Chapter 11 (§ 54.1-1100 et seq.) of Title 54.1 of the Code of Virginia governing the regulation of contractors.
12 13	18 VAC 15-20-120. Asbestos contractor responsibilities.
14 15 16 17 18 19 20	A. Licensed asbestos contractors shall comply with all requirements, procedures, standards and regulations covering any part of an asbestos project established by the U.S. Environmental Protection Agency, the U.S. Occupational Safety and Health Administration, the Virginia Department of Labor and Industry, and the Divisions of Air Pollution and Waste Management of the Department of Environmental Quality.
21 22 23 24 25	B. Licensed asbestos contractors may also be required to comply with the requirements found in § 54.1–1100 of the Code of Virginia governing the regulation of general contractors.
26 27	C. The licensed asbestos contractor may designate a licensed supervisor to serve as his agent for the purpose of meeting the training requirements.
28 29 30	D. A licensed asbestos contractor shall use only licensed asbestos supervisors and workers to perform work on any asbestos project.
31 32 33	E. A licensed asbestos supervisor must be present at each job site while an asbestos project is in progress.
34 35 36 37	18 VAC 15-20-130. Maintenance of licensing and training records at the asbestos job site. (Repealed)
38 39 40 41 42	A. The asbestos contractor shall be responsible for maintaining, at each job site, a list or copy of the license of each asbestos worker and supervisor. This list shall include the current license numbers and the license expiration dates of those workers and supervisors. The section does not relieve the contractor of any specific AHERA and ASHARA requirements concerning training certificates.
43 44 45 46	B. A licensed asbestos contractor shall maintain a copy of their Virginia asbestos contractors license on the job site.

C. Records maintained at the job site shall be available for review by the Department of Labor and Industry, the Department of Professional and Occupational Regulation, and all other agencies having authorization to inspect an asbestos job site.

18 VAC 15-20-140. Conflict of interest. (Repealed)

Pursuant to § 54.1-501.1 of the Code of Virginia, the following situations and relationships between license categories are deemed to represent a conflict of interest and are prohibited.

- 1. It is a conflict of interest and a violation of this chapter for an asbestos contractor to have an employee/employer relationship with, or financial interest, in a laboratory utilized by the contractor for asbestos sample analysis. Laboratories owned by a building owner performing analysis on suspect asbestos samples taken from the building owners' property are exempt from this section.
- 2. It is a conflict of interest and a violation of this chapter for an asbestos contractor to have an employee/employer relationship with an asbestos project monitor working on an asbestos project performed by that asbestos contractor. An asbestos contractor shall not have any financial interests in the firm of which a project monitor is an employee. This section does not relieve a contractor of the OSHA personal monitoring requirements set forth in 29 CFR 1926.58(f).
- 3. It is a conflict of interest and a violation of this chapter for an asbestos contractor to enter into a contract to perform an asbestos project if the asbestos inspection or project design was performed by individuals with an employer/employee relationship with or financial interest in, the asbestos contractor, unless the asbestos contractor provides the building owner with the Virginia Asbestos Licensing Consumer Information Sheet and the Virginia Asbestos Licensing Inspector/Project Designer/Contractor Disclosure Form as prescribed by the department. The asbestos contractor's relationship with the asbestos inspector, asbestos RFS inspector, or project designer on the project must be disclosed. The disclosure form must be signed and dated by the building owner or his agent and the contracting entity prior to the bid or contract submission. The building owner must provide the disclosure form to all parties involved in the asbestos project. The disclosure form will be kept on the asbestos project site and available for review.

18 VAC 15-20-150. Denial of license.

The board may refuse to issue a license to any asbestos contractor <u>applicant</u> who is shown to have a substantial identity of interest with if the applicant or its owners, officers or <u>directors have a financial interest in</u> an asbestos contractor or RFS contractor whose asbestos license has been revoked, suspended or not renewed <u>denied renewal in any jurisdiction</u>.

1	A substantial identity of interest is defined to include, but is not limited to, (i) a
2	controlling financial interest by the individual or corporate principals of the asbestos
3	contractor whose license has been revoked or not renewed or (ii) any officers or directors
4	whose license has been denied, revoked, or not renewed.
5	
6	18 VAC 15-20-160. Transfer of Asbestos Contractor License. (Repealed)
7	
8	The transfer of an Asbestos Contractor License is prohibited. Whenever there is any
9	change in the controlling interest of the licensed legal entity, whether in proprietorship or
10	change of partner in partnership or the creation of a corporation, a new license is required.
11	DADTM
12	PART VI.
13	RFS CONTRACTOR LICENSING REQUIREMENTS.
14	
15	18 VAC 15-20-170. General. (Repealed)
16	
17	All individual workers and supervisors on RFS projects must have fulfilled the RFS
18	training requirements specified in Part XVI of this chapter.
19	
20	18 VAC 15-20-180.—Qualifications for licensure. (Repealed)
21	
22	Applicants shall have all occupational or professional licenses required by state
23	statute or local ordinance to transact the business of an asbestos RFS contractor, in addition
24	to the requirements set forth in this chapter.
25	to the requirements set forth in this enapter.
26	18 VAC 15-20-190. RFS contractor responsibilities. (Repealed)
27	18 VAC 13-20-170 <del>. KF3 contractor responsionities.</del> (Repealed)
	A. I
28	A. Licensed RFS contractors shall comply with all requirements, procedures,
29	standards and regulations relating to asbestos established by the U.S.
30	Environmental Protection Agency, the U.S. Occupational Safety and Health
31	Administration, the Virginia Department of Labor and Industry, and the Divisions
32	of Air Pollution and Waste Management of the Department of Environmental
33	Quality.
34	
35	B. Licensed RFS contractors may also be required to comply with the requirements
36	found in § 54.1-1100 of the Code of Virginia, governing the regulation of general
37	contractors.
38	
39	C. A licensed RFS Contractor shall use only RFS trained workers and RFS trained
40	supervisors to perform work on any RFS removal project.
41	supervisors to perform work on any Kr 5 removar project.
	D. A. trained DEC supervisor must be present at each job DEC job site
42	D. A trained RFS supervisor must be present at each job RFS job site.
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44	18 VAC 15-20-200. Maintenance of training records at the asbestos job site. (Repealed)
45	

1	A. The RFS contractor shall be responsible for maintaining, at each job site, a copy of
2	the training certificates for each RFS asbestos worker and supervisor and shall
3	include the date of each worker and supervisor RFS training.
4	ı
5	B. A licensed RFS contractor shall maintain a copy of their Virginia RFS asbestos
6	contractors license on each job site.
7	J
8	C. Records maintained at the job site shall be available for review by the Department
9	of Labor and Industry, the Department of Professional and Occupational
10	Regulation, and all other agencies having authorization to inspect an RFS job site.
11	g , g g
12	18 VAC 15-20-210. Conflict of interest. (Repealed)
13	
14	Pursuant to § 54.1-501.1 of the Code of Virginia, the following situations and
15	relationships between license categories are deemed to represent a conflict of interest and are
16	prohibited.
17	•
18	1. It is a conflict of interest and a violation of this chapter for an asbestos RFS
19	contractor to have an employee/employer relationship with, or financial interest in,
20	a laboratory utilized by the contractor for asbestos sample analysis. Laboratories
21	owned by a building owner performing analysis on suspect asbestos samples taken
22	from said building owner's property are exempt from this section.
23	
24	2. It is a conflict of interest and a violation of this chapter for an asbestos RFS
25	contractor to have an employee/employer relationship with an asbestos project
26	monitor working on a removal project performed by that asbestos RFS contractor.
27	An asbestos RFS contractor shall not have any financial interests in the firm of
28	which a project monitor is an employee. This section does not relieve a contractor
29	of the OSHA personal monitoring requirements in 29 CFR 1926.58(f).
30	
31	3. It is a conflict of interest and a violation of this chapter for an asbestos RFS
32	contractor to enter into a contract to perform a removal project if the asbestos
33	inspection or project design was performed by individuals with an
34	employer/employee relationship with, or financial interest in, the asbestos RFS
35	contractor, unless the RFS contractor provides the building owner with the
36	Virginia Asbestos Licensing Consumer Information Sheet and the Virginia
37	Asbestos Licensing Inspector/Project Designer/Contractor Disclosure Form as
38	prescribed by the board. The asbestos RFS contractor's relationship with the
39	asbestos inspector, asbestos RFS inspector, or project designer on the project must
40	be disclosed. The disclosure form must be signed and dated by the building owner
41	or his agent and the contracting entity prior to the bid or contract submission. The
42	building owner must provide the disclosure form to all parties involved in the
43	removal project. The disclosure form will be kept on the removal site and
44	available upon demand.
45	•
46	18 VAC 15-20-220. Denial of license. (Repealed)

1	
2	The board may refuse to issue a license to any asbestos RFS contractor who is shown
3	to have a substantial identity of interest with an RFS contractor or asbestos contractor whose
4	asbestos license has been revoked, suspended or not renewed. A substantial identity of
5	interest is defined to include but is not limited to, (i) a controlling financial interest by the
6	individual or corporate principals of the asbestos RFS contractor whose license has been
7	revoked or not renewed or (ii) any officers or directors whose license has been denied,
8	revoked, or not renewed.
9	
10 11	18 VAC 15-20-230. Transfer of asbestos RFS contractor license. (Repealed)
12	The transfer of an RFS contractor license is prohibited. Whenever there is any change
13	in the controlling interest of the licensed legal entity, whether in proprietorship or change of
14	partner in partnership or the creation of a corporation, a new license is required.
15 16	<del>PART VII.</del>
17	RFS INSPECTOR LICENSING REQUIREMENTS.
18	
19	18 VAC 15-20-240.—Qualifications for licensure. (Repealed)
20	
21	Each individual applying to the board for licensure as an RFS inspector shall have the
22	following qualifications:
23	
24	1. Applicants shall be at least 18 years of age; and
25	
26	2. Applicants shall provide evidence of having completed educational requirements,
27	as set forth in 18 VAC 15-20-920 of this chapter.
28	
29	PART VIII PART VIII.
30	ASBESTOS INSPECTOR LICENSING REQUIREMENTS.
31 32	18 VAC 15-20-250. Qualifications for licensure.
33	16 VAC 13-20-230. Qualifications for ficensure.
34	A. Each individual applying to the board for licensure as an asbestos inspector shall
35	have the following qualifications submit a completed application, all training
36	documents as required by 18 VAC 15-20-30 C, the appropriate fee as established
37	in 18 VAC 15-20-50, and evidence of meeting the experience requirements as
38	established in subsection B of this section. Evidence of experience and education
39	shall comply with 18 VAC 15-20-40.
40	Similar Compily William To 1110 10 20 100
41	1. Applicants shall be at least 18 years of age;
12	
13	2. The applicant must have successfully completed an asbestos inspector training
14	course and examination approved by the board or an USEPA accredited AHERA
<b>4</b> 5	inspector training course and examination. Applicants shall submit all training
<del>1</del> 6	documents in accordance with 18 VAC 15-20-30 B;

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- <u>B.</u> 3. The applicant shall be required to provide proof evidence of experience in performing asbestos inspections in buildings or industrial facilities, including collecting bulk samples, categorizing ACM, assessing ACM and preparing inspection reports. The amount of experience required is dependent on the applicant's formal education and is as follows: Experience may be gained by acting as an inspector, being in responsible charge of inspectors, or being under the direct supervision of an inspector as follows:
  - a. Acting as an inspector accredited (after December 17, 1987) according to AHERA or the Virginia Asbestos Licensing Program;
  - b. Being in responsible charge of persons accredited as inspectors according to AHERA or the Virginia Asbestos Licensing Program; or
  - c. Being under the direct supervision of an inspector accredited according to AHERA or the Virginia Asbestos Licensing Program. All reports prepared by the unlicensed individual must be signed by the licensed or accredited individual in charge. The licensed or accredited individual in charge assumes responsibility for all reports prepared by the unlicensed individual.
- 4.1. An applicant with a bachelor's degree in engineering, architecture, industrial hygiene, [physical] science or a related field must shall have at least six months experience as described above or have completed a minimum of five inspections. The applicant must submit the Experience and Educational Form (Form A) as noted in 18 VAC 15-20-40.
- 5.2. An applicant with a two-year associate's degree in engineering, architecture, industrial hygiene, [physical] science or a related field must shall have at least 12 months experience as described above or have completed a minimum of 10 inspections. The applicant must submit the Experience and Educational Form (Form A) as noted in 18 VAC 15-20-40.
- 6.3. An applicant with a high school diploma must shall have at least 24 months experience as described above or have completed a minimum of 15 inspections. The applicant must submit the Experience Verification Form (Form A) as noted in 18 VAC 15-20-40.

### 18 VAC 15-20-251. Qualifying experience.

#### Experience may be obtained by:

1. Conducting asbestos inspections in jurisdictions outside of Virginia in accordance with all federal, state and local statutes.

1	2. Conducting asbestos inspections under the direct supervision, as defined in this
2	chapter, of a licensed inspector, or EPA-accredited inspector where no license is
3	required. All reports prepared by the unlicensed individual shall be signed by the
4	licensed or EPA-accredited inspector in charge. The licensed or EPA-accredited
5	inspector assumes responsibility for all sampling and reports prepared by the
6	unlicensed individual.
7	
8	<del>PART IX.</del> PART VIII.
9	ASBESTOS MANAGEMENT PLANNER LICENSING REQUIREMENTS.
10	
11	18 VAC 15-20-260. Management plan. (Repealed)
12	
13	The management planner is responsible for preparing or updating a management plan
14	in response to an asbestos inspection. This document identifies asbestos containing
15	materials, specifies training, work permitting system, cleaning and work practices, and
16	surveillance procedures to be utilized by maintenance and custodial staff performing routine
17	maintenance. A management plan is prepared following an asbestos inspection.
18	maniferment of maniferment is proported to make the same and provided in the same and provided i
19	18 VAC 15-20-270. Qualifications for licensure.
20	10 VIIO 10 20 2701 Qualifications for incompare.
21	A. Each individual applying to the board for licensure as an asbestos management
22	planner shall have the following qualifications: submit a completed application, all
23	training documents as required by 18 VAC 15-20-30 C, the appropriate fee as
24	required by 18 VAC 15-20-50, and evidence of meeting the experience
25	requirements established by 18 VAC 15-20-250 B and subsection B of this section.
26	The applicant shall also meet all qualifications to be licensed as an asbestos
27	inspector, whether or not the license is held. Evidence of experience and education
28	shall comply with 18 VAC 15-20-40.
29	Shall comply with 10 vite 10 20 tol
30	1. Applicants shall be at least 18 years of age.
31	To reppresent to the reason to yours or ago.
32	2. The applicant must have successfully completed an asbestos management planner
33	training course and examination approved by the board or a USEPA accredited
34	AHERA management planner training course and examination. Applicants shall
35	submit all training documents in accordance with 18 VAC 15-20-30 B.
36	out and the state of the state
37	3. The applicant must meet all of the qualifications to be licensed as an asbestos
38	inspector, whether or not the asbestos inspector license is held.
39	inspector, whether or not the discussion inspector member is not.
40	B.4. The applicant is required to provide proof shall provide evidence of experience
41	evaluating inspection reports, selecting response actions, analyzing the cost of
42	response actions, ranking response actions, preparing operations and maintenance
43	plans and preparing management plans. The amount of experience required is
44	dependent on the applicant's formal education and is as follows:
45	
45	

1	B. Experience may be gained by acting as a management planner, being in
2	responsible charge of management planners or being under the direct supervision
3	of a management planner as follows:
4	
5	1. Any experience gained after December 17, 1987, must be gained acting as a
6	management planner accredited according to AHERA, or the Virginia Asbestos
7	Licensing Program, being in responsible charge of persons accredited as
8	management planners according to AHERA or being under the direct supervision
9	of a management planner accredited according to AHERA or the Virginia
10	Asbestos Licensing Program. All reports prepared by the unlicensed individual
11	must be signed by the licensed or accredited person in charge, who assumes
12	responsibility; or
13	
14	2. Experience gained as an inspector as outlined in 18 VAC 15-20-250 may be
15	substituted for the management planner experience requirements.
16	
17	C.1. An applicant with a bachelor's degree in engineering, architecture, industrial
18	hygiene, [physical] science or a related field must shall have at least six months
19	experience as described above or shall have completed a minimum of five
20	management plans. The applicant must submit the Experience and Educational
21	Verification Form (Form A) as noted in 18 VAC 15-20-40.
22	
23	D.2. An applicant with a two-year associate's degree in engineering, architecture,
24	industrial hygiene, [physical] science or a related field must shall have at least 12
25	months experience as described above or shall have completed a minimum of 10
26	management plans. The applicant must submit the Experience and Educational
27	Form (Form A) as noted in 18 VAC 15-20-40.
28	
29	E.3. An applicant with a high school diploma must shall have at least 24 months
30	experience as described above or shall have completed a minimum of 15
31	management plans. The applicant must submit the Experience Verification Form
32	(Form A) as noted in 18 VAC 15-20-40.
33	10 114 6 15 20 251 0 116 1
34	18 VAC 15-20-271 Qualifying experience.
35	
36	Experience may be obtained by:
37	
38	1. Preparing management plans or conducting asbestos inspections in jurisdictions
39	outside of Virginia in accordance with all federal, state and local statutes.
40	2. Describes assessed along an analysis of sets in a set
41	2. Preparing management plans or conducting asbestos inspections under the direct
42	supervision, as defined in this chapter, of a licensed management planner or
43	inspector, or EPA-accredited management planner or inspector where no license is
44	required. All reports prepared by the unlicensed individual shall be signed by the
45	licensed or EPA-accredited management planner or inspector in charge. The

1	licensed or EPA-accredited management planner or inspector assumes
2	responsibility for all sampling and reports prepared by the unlicensed individual.
3	
4	PART X. PART IX
5	ASBESTOS PROJECT DESIGNER LICENSING REQUIREMENTS.
6 7	18 VAC 15-20-280. Duties and functions. (Repealed)
8	
9	The duties and functions of a project designer include, but are not limited to,
10	preparing an asbestos abatement project design, specifications for asbestos abatement
11	projects and addenda to abatement specifications.
12	
13	18 VAC 15-20-290. Qualifications for licensure.
14	
15	A. Each individual applying to the board for licensing as an asbestos project designer
16	shall have the following qualifications:
17	
18	A. Each individual applying to the board for licensing licensure as an asbestos project
19	designer shall have the following qualifications: submit a completed application,
20	all training documents as established in 18 VAC 15-20-30 C, the appropriate fee as
21	established in 18 VAC 15-20-50, [and] evidence of meeting the experience
22	requirements as established in subsection B of this section. Evidence of
23	experience and education shall comply with 18 VAC 15-20-40.
24	
25	1. Applicants shall be at least 18 years of age;
26	2 A
27	2. Applicants shall provide evidence of completion of an EPA/AHERA approved or
28	board approved asbestos project designer training course. All training documents
29	must be submitted in accordance with 18 VAC 15-20-30 B; and
30	D 2 After May 1 1004 the The applicant shall provide massferridance of experience
31 32	B.3. After May 1, 1994, the The applicant shall provide proof evidence of experience
	in the preparation of project designs or project specifications. on the Form A as
33	noted in 18 VAC 15-20-40. Experience may be gained for licensure as a project
34	designer The amount of experience required is dependent on the applicant's formal
35 36	education and is as follows:
37	a Acting as a project designer prior to September 1, 1002, according to
38	<ul> <li>a. Acting as a project designer prior to September 1, 1993, according to</li> <li>AHERA or the Virginia Asbestos Licensing Program regulations; or</li> </ul>
39	AFIERA OF the Virginia Aspestos Licensing Program regulations, or
40	h Paing under the direct supervision of a project designer accredited
40	<ul> <li>b. Being under the direct supervision of a project designer accredited</li> <li>according to AHERA, or licensed as an project designer by the Virginia</li> </ul>
41	Asbestos Licensing Program or another jurisdiction with an Environmental
43	Protection Agency approved accreditation program. All work prepared by
43 44	the unlicensed individual must be signed by the accredited or licensed
45	designer in charge. The accredited or licensed individual assumes all
45	responsibility for work prepared by the unlicensed individual.
TU	responsibility for work prepared by the unifectional marviadal.

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2	B.1. An applicant with a Bachelor of Science bachelor's degree in engineering,
3	architecture, industrial hygiene, physical science or related field must shall have six
4	months experience as described above or shall have completed a minimum of five
5	project designs. The applicant must submit the Experience and Educational
6	Verification Form (Form A) as noted in 18 VAC 15-20-40.
7	
8	C-2. An applicant with a two-year associate's degree in engineering, architecture,
9	industrial hygiene, physical science or related field must shall have 12 months
10	experience as described above or shall have completed a minimum of 10 project
11	designs. The applicant must submit the Experience and Educational Verification
12	Form (Form A) as noted in 18 VAC 15-20-40.
13	
14	D.3. An applicant with a high school diploma must shall have at least 24 months
15	experience as described above or shall have completed a minimum of 15 project
16	designs. The applicant must submit the Experience Verification Form (Form A) as
17	noted in 18 VAC 15-20-40.
18	19 WAC 15 20 201 Qualifying aymericans
19 20	18 VAC 15-20-291. Qualifying experience.
21	Experience may be obtained by:
22	Experience may be obtained by:
23	1. Preparing asbestos project designs in jurisdictions outside of Virginia in
24	accordance with all federal, state and local statutes.
25	accordance with an rederal, state and rocal statutes.
26	2. Preparing asbestos project designs under the direct supervision, as defined in this
27	chapter, of a licensed asbestos project designer, or EPA-accredited asbestos project designer
28	where no license is required. All project designs prepared by the unlicensed individual shall
29	be signed by the licensed EPA-accredited project designer in charge. The licensed or EPA-
30	accredited project designer assumes responsibility for all project design reports prepared by
31	the unlicensed individual.
32	
33	<del>PART XI.</del> <u>PART X.</u>
34	ASBESTOS PROJECT MONITOR LICENSING REQUIREMENTS.
35	
36	18 VAC 15-20-300. Duties and functions. (Repealed)
37	
38	The duties and functions of a project monitor include, but are not limited to,
39	observing and monitoring the activities of an asbestos abatement contractor or RFS
40	contractor on asbestos projects to determine that proper work practices are used and
41	compliance with all asbestos laws and regulations is maintained, collecting environmental air
42	samples during the asbestos project, performing visual inspections of the work area and

granting final clearance upon completion of the asbestos project. Project monitors who

regulations are not complied with, shall take action in accordance with 18 VAC 15-20-400.

determine that proper work practices are not being followed, or that asbestos laws or

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1	18 VAC 15-20-310. Abatement projects that require a project monitor. (Repealed)
2 3	A project monitor is required on:
4	A project monitor is required on:
5	1. Asbestos projects, performed in buildings that are occupied or intended to be
6	occupied upon completion of the asbestos project, exceeding 2600 linear feet or
7	1600 square feet of asbestos containing material; or
8	
9	2. Whenever the building or property owner deems it necessary to monitor asbestos
10	projects or work performed by an RFS contractor on their property.
11	
12	18 VAC 15-20-320. Exemptions. (Repealed)
13	
14	Asbestos projects in residential buildings are exempt from the project monitor
15	requirements.
16	10 111 0 17 00 000 0 107 11 0 11
17	18 VAC 15-20-330. Qualifications for licensure.
18	A. Englain divided annulation about the edition of the first term
19	A. Each individual applying shall be at least 18 years of age for licensure as an
20 21	asbestos project monitor shall submit a completed application, all training
22	documents as required by 18 VAC 15-20-30 C, the appropriate fee as established in 18 VAC 15-20-50, and evidence of meeting the experience requirements as
23	established in subsection B of this section. Evidence of experience and education
24	shall comply with 18 VAC 15-20-40.
25	Shan comply with 10 VAC 13-20-40.
26	B. The applicant must have a high school diploma or an equivalent The applicant
27	shall provide evidence of experience in performing asbestos project monitoring
28	through field work on project sites. This includes, but is not limited to, evaluating
29	and monitoring asbestos work practices, collecting environmental asbestos air
30	samples during abatement, performing visual inspections and taking final air
31	samples to grant clearance for asbestos abatement projects. Each applicant shall
32	provide evidence of 160 hours of said experience.
33	
34	C. An applicant currently certified by the USEPA as a project designer or asbestos
35	supervisor may successfully complete an asbestos project monitor training course
36	of 16 hours and examination.
37	
38	D. An applicant not currently certified as a project designer or asbestos supervisor
39	shall successfully complete a comprehensive asbestos project monitor training
40	course of 40 hours and examination approved by the board.
41 42	E. The applicant shall provide proof of performing 160 hours of ashestes project
43	E. The applicant shall provide proof of performing 160 hours of asbestos project monitoring training through field work on project sites, including evaluating and
44	monitoring training through field work on project sites, including evaluating and monitoring the asbestos work practices. The field work shall also include
45	collecting environmental air samples during the abatement work and granting fina
46	clearance by performing visual inspections and collecting aggressive final air
.0	eremented of performing visual inspections and confecting aggressive final an

1	samples. The applicant shall submit the Experience Verification Form (Form A),
2	as noted in 18 VAC 15-20-40, to verify the above experience.
3 4	F. Project monitors who analyze PCM air samples on site must be employed by a
5	Virginia licensed asbestos analytical laboratory.
6	Virginia neemsed aspesios anarytical laboratory.
7	Experience may be gained to qualify for licensure as follows:
8	Experience may be gained to qualify for necessare as follows.
9	1. Acting as a project monitor after becoming licensed by the department as a project
10	designer or an asbestos supervisor;
11	designer of all assesses supervisor,
12	2. Being under the direct supervision of a person acting as a project monitor who is
13	licensed by the board as a project designer or an asbestos supervisor before July 1,
14	1992, or under the direct supervision of a licensed project monitor after January 1,
15	1992. All reports compiled by an unlicensed project monitor must be signed by
16	the licensed project monitor who is responsible for his supervision. The licensed
17	individual in charge is at all times responsible for the activities of the unlicensed
18	project monitor.
19	
20	G. An applicant with a bachelor's degree in engineering, architecture, industrial
21	hygiene, science or a related field must have at least 120 hours experience as
22	described. The applicant must submit the Experience and Educational Verification
23	Form (Form A) as noted in 18 VAC 15-20-40.
24	
25	18 VAC 15-20-331. Qualifying experience.
26	
27	Experience may be obtained by:
28	
29	1. Acting as an asbestos project monitor in jurisdictions outside of Virginia in
30	accordance with all federal, state and local statutes.
31	2 Action to the description of the second of the disease of the di
32	2. Acting as an asbestos project monitor under the direct supervision, as defined in
33 34	this chapter, of a licensed asbestos project monitor, or an accredited asbestos
35	project monitor where no license is required. All project monitoring reports prepared by the unlicensed individual shall be signed by the licensed or accredited
36	project monitor in charge. The licensed or accredited project monitor assumes
37	responsibility for all reports and documents prepared by the unlicensed individual.
38	responsibility for all reports and documents prepared by the differenced marviadar.
39	18 VAC 15-20-332. Project monitor training requirements.
40	10 THE 12 20 222. Troject monitor training requirements.
41	A. An applicant currently certified by the EPA as an asbestos project designer or
42	asbestos supervisor shall successfully complete a board-approved asbestos project
43	monitor training program of 16 hours and examination. Evidence of current
44	project designer or current supervisor accreditation shall be submitted with the
45	application.
46	<del></del>

1	B. An applicant not currently certified as an asbestos project designer or asbestos
2	supervisor shall successfully complete a board-approved asbestos project monitor
3	training program of 40 hours and examination. Evidence of completion of the 40-
4	hour training program shall be submitted with the application.
5	
6	C. Only project monitor training programs which are board approved will be accepted
7	for meeting the training requirements.
8	tor moving the training requirements.
9	<del>PART XII</del> .PART XI.
10	ASBESTOS ANALYTICAL LABORATORY LICENSEING REQUIREMENTS.
11	Abbestos Alvier Here exboration electroc <u>ito</u> negotientivis.
12	18 VAC 15-20-340. General. (Repealed)
13	Asbestos analytical laboratories are required to comply with all requirements,
14	procedures, standards and regulations covering all aspects of asbestos analytical services as
15	established by this chapter.
16	established by this chapter.
17	18 VAC 15-20-350. License application. (Repealed)
18	16 VAC 13-20-330 <del>. Excense application. (Repealed)</del>
19	A Feed application shall be signed by an officer or a responsible party of the ashestes
	A. Each application shall be signed by an officer or a responsible party of the asbestos
20	analytical laboratory and shall include a certification by the applicant that within
21	the last three years prior to the application date, his license, program accreditation
22	rating or other authorization to analyze asbestos samples has not been suspended
23	or revoked by any jurisdiction, accrediting association or governing agency and
24	that no enforcement action is pending against the applicant. This section applies to
25	all branch facilities of the asbestos analytical laboratory.
26	
27	B. In the event enforcement actions have been taken against the applicant, the board
28	may deny an applicant's request for a license based on the prior enforcement
29	actions which indicate that the asbestos analytical laboratory or its branch
30	facilities may not be performing its services in a manner that would protect the
31	safety of its employees or public or that the analytical testing results might lack
32	credibility or reliability. In order to make this determination, the following
33	information will be required:
34	
35	1. A complete list of all prior enforcement actions, including any sanctions imposed
36	on the applicant by any jurisdiction or any state or federal court; and
37	
38	2. A copy of any reports of enforcement action compiled by an enforcement agency
39	against the applicant.
40	
41	C. All applications shall be completed according to the instructions provided with the
42	application. Incomplete applications will be returned to the applicant; fees
43	received are not refundable.
44	
45	18 VAC 15-20-360. Qualifications for licensure. (Repealed)
46	- · · · · · · · · · · · · · · · · · · ·

1	Each individual or business applying to the board for licensing as an asbestos
2	analytical laboratory shall have the following qualifications:
3	
4	1. Applicants shall have all occupational or professional licenses and certifications
5	necessary and required by state statute or local ordinance to transact the business
6	of an asbestos analytical laboratory in addition to those requirements as set forth in
7	this chapter.
8	T. C.
9	2. A license issued by the board will authorize an asbestos analytical laboratory to
10	perform analysis of bulk samples using PLM or TEM analysis, air samples using
11	PCM or TEM analysis or both bulk and air sampling using PLM, PCM, or TEM
12	analysis.
13	
14	3. Analysis of bulk materials:
15	5.1.1.1.1.j 5.2 51 5 4.21 1.1.1.5.
16	a. For licensure to analyze bulk materials using polarized light microscopy
17	(PLM):
18	(2 23.2).
19	(1) The applicant shall provide evidence that the asbestos analytical laboratory
20	is currently rated as "proficient" by the National Institute of Standards and
21	Technology's National Voluntary Laboratory Accreditation Program. A
22	copy of the NVLAP Certificate of Accreditation and Scope of
23	Accreditation shall be submitted with the application for licensure.
24	recreated shall be submitted with the application for needs are.
25	(2) The asbestos analytical laboratory using PLM to analyze bulk samples
26	shall use the method in accordance with USEPA specifications defined in
27	the Interim Method for the Determination of Asbestos in Bulk Insulation
28	Samples, USEPA 40 CFR 763, Appendix A, Subpart F or NIOSH Method
29	9002.
30	7002.
31	b. For licensure to analyze asbestos bulk materials using transmission electron
32	microscopy, the applicant shall provide evidence that the asbestos
33	analytical laboratory is currently rated as "proficient" by the National
34	Institute of Standards and Technology's National Voluntary Laboratory
35	Accreditation Program. A copy of the NVLAP Certificate of Accreditation
36	and Scope of Accreditation shall be submitted with the application for
37	licensure. The asbestos analytical laboratory shall participate in all rounds
38	• • • • • • • • • • • • • • • • • • • •
39	of the program.
40	1. Analysis of sinhama ashestas fibors
40	4. Analysis of airborne asbestos fibers.
	Tou licensum to analyze sinhame fiber counts using phase contract
42	a. For licensure to analyze airborne fiber counts using phase contrast
43	microscopy:
44	(1) The small containing the Hammard Land Containing the Containin
45	(1) The applicant shall provide evidence that the National Institute for
46	Occupational Safety and Health (NIOSH) has rated all the applicant's

1	facilities in the Proficiency Analytical Testing (PAT) Programs most recent
2	round of asbestos evaluations and has been found "proficient" or has been
3	accredited by the American Industrial Hygiene Association for Asbestos
4	Analytical Services. Each analyst must provide proof of successfully
5	completing the NIOSH 582 Course or equivalent.
6	
7	(2) The laboratory shall use the method in accordance with OSHA 29 CFR
8	1910.1001, Appendix A, 119 FR 22739, or most recent edition of the
9	NIOSH 7400 counting method.
10	6
11	(3) Analysts who analyze air samples on site must be employed by a Virginia
12	licensed Asbestos Analytical Laboratory.
13	
14	b. The technique used for TEM Analysis of asbestos airborne fiber counting shall be
15	in accordance with USEPA 40 CFR 763, Appendix A, Subpart E or NIOSH
16	Method 7402. The applicant shall provide evidence that the asbestos analytical
17	laboratory and its branch facilities are currently rated as "proficient" by the
18	National Institute of Standards and Technology's National Voluntary Laboratory
19	Accreditation Program. A copy of the NVLAP Certificate of Accreditation and
20	Scope of Accreditation shall be submitted with the application for licensure. The
21	asbestos analytical laboratory shall participate in all rounds of the NVLAP
22	program.
23	program.
24	18 VAC 15-20-361. Qualifications for licensure.
25	10 VIIC 13 20 301. Qualifications for incensure.
26	A. Each applicant for an asbestos analytical laboratory license shall submit a
27	completed application, the appropriate fee as required by 18 VAC 15-20-50, and
28	evidence of meeting the standards to perform one or more of the analyses
29	described in subsections B, C and D of this section. Each license issued shall
30	indicate which kind of analysis the asbestos analytical laboratory is seeking
31	authorization to perform.
32	authorization to perform.
33	B. For authorization to analyze bulk materials using PLM, the applicant shall provide
34	evidence that the asbestos analytical laboratory is currently NVLAP accredited for
35	bulk asbestos fiber analysis or evidence that the asbestos analytical laboratory is
36	AIHA accredited and proficient in the AIHA bulk asbestos program. A copy of
37	the NVLAP Certificate of Accreditation, Scope of Accreditation and
38	documentation of NVLAP proficiency or a copy of an AIHA accreditation
39	certificate and proof of proficiency in the AIHA bulk program shall be submitted
40	with the application for licensure.
41	with the application for necessare.
42	C. For authorization to analyze airborne fibers using PCM:
43	C. 1 of authorization to unaryze an oome moors using 1 Civi.
44	1. For fixed laboratory sites, the applicant shall provide evidence that each facility is
45	accredited by AIHA or that each facility has been rated "proficient" in the PAT
46	Program's most recent round of asbestos evaluations, or the applicant shall provide
+0	1 rogram's most recent round of aspestos evaluations, of the applicant shall provide

1	evidence that each analyst is listed or has applied for listing in the Asbestos
2	Analyst Registry (AAR) and has a performance rating of "acceptable" for the most
3	recent Asbestos Analyst Testing (AAT) round. The applicant shall also provide
4	evidence that each analyst has completed the NIOSH 582 training program or
5	equivalent [as approved by the AIHA].
6	
7	2. For laboratories that will be conducting on-site analysis, the applicant shall provide
8	evidence that each on-site analyst is listed [or the applicant shall provide evidence
9	that each analyst is listed or has applied for listing in the AAR and has a
10	performance rating of "acceptable" for the most recent AAT round within six
11	months after the implementation date of this chapter [or is accredited by AIHA or
12	has been rated "proficient" in the PAT Program's most recent round of asbestos
13	evaluations. The applicant shall also provide evidence that each analyst has
14	completed the NIOSH 582 training program or equivalent].
15	D. Fan Barrana to analysis about a sistema Chang and TEM the analysis to bell
16	D. For licensure to analyze asbestos airborne fibers using TEM, the applicant shall
17	provide evidence that the asbestos analytical laboratory is currently NVLAP
18	accredited to analyze asbestos airborne fibers using TEM. A copy of the NVLAP
19	Certificate of Accreditation, Scope of Accreditation and documentation of NVLAP
20 21	proficiency shall be submitted with the application.
22	18 VAC 15-20-370. Completed application. (Repealed)
23	16 VAC 13-20-370. Completed application. (Repealed)
24	A completed application (as required in 18 VAC 15-20-30) shall be accompanied by
25	the required fee. All checks or money orders shall be made payable to the
26	"Treasurer of Virginia." No application will be processed if it is not accompanied
27	by the required fee. The application shall list the type of analyses performed.
28	by the required ree. The appreciation shall hist the type of analyses performed.
29	18 VAC 15-20-380. Change of status. (Repealed)
30	control of the contro
31	A. The licensee shall notify the board immediately of any addition or deletion
32	regarding employment of trained and experienced supervisors, and any changes
33	regarding the signing officers or responsible party's relationship with the company.
34	
35	B. The licensee shall notify the board immediately upon the loss of accreditation or
36	proficiency rating by NVLAP, NIOSH PAT Proficiency Program or AIHA by any
37	laboratory location.
38	
39	C. The licensee shall notify the board, in writing, within 10 days of the receipt of their
<del>1</del> 0	most recent proficiency evaluation results. This shall include, but not be limited to,
41	NVLAP Accreditation, PAT round results and AIHA evaluation accreditation.
<del>1</del> 2	
<del>1</del> 3	D. The licensee shall notify the board, in writing, if the type of analysis performed is
14	different from the type of analysis in which the initial license was issued. The
45	licensee shall submit a new application reflecting the changes and submit the
<del>1</del> 6	qualifications required by this chapter to perform the analysis. The above

1 2	information must be submitted to the board prior to performing the analysis. No additional fees are required to upgrade the analytical laboratory license.
3 4	18 VAC 15-20-390. License certificate. (Repealed)
5 6 7	A. The transfer of an Asbestos Analytical Laboratory License is prohibited.  Whenever there is any change in the controlling interest of the legal entity
8 9	licensed, whether in proprietorship or change of partner in a partnership or the creation of a corporation, a new license is required.
10 11	B. A copy of the current Asbestos Analytical Laboratory License will be on site at all
12 13 14	times where analysis is performed, including project sites. The license shall be available for review by the department.
15 16 17	C. The board shall require asbestos analytical laboratories that wish to become or remain licensed in the Commonwealth to conform to any future additional standards or regulations set forth by the USEPA or accrediting entity.
18 19	D. The board or board representatives shall conduct periodic on site inspections and
20	evaluations of any licensed asbestos analytical laboratory facility. The inspection
21	shall include, but not be limited to: equipment, procedure and protocol records,
22	training and accreditation documentation and any other program evaluation results
23 24	on file. Prior notice of such inspections is not required.
25	<del>PART XIII</del> .PART XII.
26 27	GENERAL STANDARDS OF PRACTICE AND CONDUCT.
28 29	18 VAC 15-20-400. Responsibility to the public.
30 31 32 33 34	The primary obligation of the licensee or approved entity regulant is to the public. If the licensee or approved entity's regulant's judgement is overruled under circumstances when the safety, health, property and welfare of the public are endangered, the licensee or approved entity regulant shall inform the employer or client of the possible consequences and notify appropriate authorities if the situation is not resolved. The licensee or approved entity
35 36 37	regulant shall take such action only when his authority to correct a problem has been ignored or overruled.
38 39	18 VAC 15-20-410. Public statements.
40 41 42	A. The licensee or approved entity regulant shall be truthful in all matters relating to the performance of asbestos abatement or asbestos consulting services.
42	B. When serving as an expert or technical witness, the licensee or approved entity
44	regulant shall express an opinion only when it is based on an adequate knowledge
45	of the facts in issue and on a background of technical competence in the subject
46	matter. Except when appearing as an expert witness in court or an administrative

1	proceeding when the parties are represented by counsel, the licensee or approved		
2	· — · · · · · · · · · · · · · · · · · ·		
3			
4	parties, unless one has prefaced the comment by disclosing the identities of the		
5	party or parties on whose behalf the licensee or approved entity regulant is		
6	speaking, and by revealing any self-interest.		
7			
8	C. A licensee or approved entity regulant shall not knowingly make a materially false		
9	statement, submit falsified documents or fail to disclose a material fact requested		
10	in connection with an application submitted to the board by any individual or		
11	business entity for licensure or renewal.		
12	·		
13	18 VAC 15-20-420. Solicitation of work.		
14			
15	In the course of soliciting work:		
16			
17	1. The licensee or approved entity regulant shall not bribe.		
18	in the head of approved only <u>regulate</u> shall not offer.		
19	2. The licensee or approved entity regulant shall not falsify or permit		
20	misrepresentation of the <del>licensee or approved entity's</del> regulant's work or an		
	associate's academic or professional qualifications, nor shall the licensee or		
21	associate's academic of professional quantications, not shall the needsector approved entity regulant misrepresent the degree of responsibility for prior		
21 22 23 24 25 26	· · · · · · · · · · · · · · · · · · ·		
23 24	assignments. Materials used in the solicitation of employment shall not		
24	misrepresent facts concerning employers, employees, associates joint ventures or		
25 26	past accomplishments of any kind.		
26			
27	3. <u>Materials used in the solicitation of employment shall not misrepresent facts</u>		
28	concerning employers, employees, associates, joint ventures or past		
29	accomplishments of any kind.		
30			
31	<u>34</u> . Materials used in the solicitation of services shall not misrepresent facts of		
32	approval, federal, or state requirements.		
33			
34	18 VAC 15-20-430. Professional responsibility.		
35			
36	A. The licensee or approved entity shall, upon request or demand, produce to the		
37	board, or any of its representatives, any plan, document, book, record or copy of it		
38	in his possession concerning a transaction covered by this chapter, and shall		
39	cooperate in the investigation of a complaint filed with the board against a licensee		
40	or approved entity.		
41			
12	B. A licensee or approved entity shall not use the design, plans or work of another		
43	licensee or approved entity without the original professional's knowledge and		
14	consent and after consent, a thorough review to the extent that full responsibility		
45	may shall be assumed by the user.		
16	maj <u>onan</u> de abbanica oj die aber.		

1	C. Accredited asbestos training providers shall admit board representatives for the
2	purpose of conducting an on-site audit, or any other purpose necessary to evaluate
3	compliance with this chapter and other applicable laws and regulations.
4	
5 6	18 VAC 15-20-440. Good standing in other jurisdictions.
7	A. A licensee or approved entity licensed to practice Regulants who perform project
8	monitoring, project design, inspections, management planning, asbestos abatement
9	training, contractual asbestos contracting or supervisor work in other jurisdictions
10	shall be in good standing in every jurisdiction where licensed, certified, or
11	approved and shall not have had a license, certificate certification or approval
12	suspended, revoked or surrendered in connection with a disciplinary action.
13	
14	B. Regulants shall notify the board in writing no later than 10 days after the final
15	disciplinary action taken by another jurisdiction against their license or other
16	approval to conduct asbestos abatement activities.
17	
18	C. Regulants may be subject to disciplinary action or removal of an asbestos training
19	program accreditation for disciplinary actions taken by another jurisdiction.
20	
21	18 VAC 15-20-450. Prohibited acts. Grounds for disciplinary action.
22 23 24	
23	A. The following may be grounds for disciplinary action by the board shall have the
24	authority to fine any licensee or [accredited asbestos training program,] accredited
25 26	asbestos training provider or instructor, and to deny renewal, suspend, revoke or
26 27	deny application for any license or approval as an [accredited asbestos training
27	program,] accredited asbestos training provider or instructor provided for under
28	Chapter 5 (§ 54.1-500 et seq.) [or of] Title 54.1 of the Code of Virginia for:
29	1. The Personal Angleine annuities an adjustment in the stillet AVI-letine and
30 31	1. The licensee, training provider, or primary instructor has violated <u>Violating</u> or induced inducing another person to violate any of the provisions of Chapters 1, 2,
32	
33	3, or 5 of Title 54.1 of the Code of Virginia, or any <u>of the</u> provisions of this
34	chapter.
35	2. The licensee has obtained his Obtaining a license, [approval as an accredited
36	asbestos training program,] approval as an accredited asbestos training provider or
37	approval as an instructor through fraudulent means.
38	approvar as an insuractor anough madation means.
39	3. The licensee has altered a Virginia Asbestos License issued by the Commonwealth
40	or certificate issued by a training provider. Altering [, falsifying or issuing a
41	fraudulent] [a] Virginia Asbestos License [issued by the board] or a training
42	certificate issued by an accredited asbestos training program.
43	
44	4. The licensee, training provider or primary instructor violates Violating any
45	provision of AHERA or ASHARA, or any federal or state regulation pertinent to
46	asbestos activity.

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- 5. The licensee has <u>Having</u> been found guilty by the board, an administrative body, or by a court of any <u>material</u> misrepresentation in the course of performing his asbestos-related operating duties.
- 6. The licensee has Subject to the provisions of §54.1-204 of the Code of Virginia, having been convicted or found guilty, regardless of adjudication in any jurisdiction of the United States, of any felony or of any misdemeanor involving lying, cheating, or stealing, or of any violation while engaged in environmental remediation activity, which resulted in the significant harm or the imminent and substantial threat of significant harm to human health or the environment there being no appeal pending therefrom or the time for appeal having elasped. Any plea of nolo contendere shall be considered a conviction for the purposes of this chapter. The record of a conviction authenticated in such form as to be admissible in evidence under the laws of the jurisdiction where convicted, shall be admissible as prima facie evidence of such conviction. A certified copy of the final order, decree or case decision by a court or regulatory agency with lawful authority to issue such order, decree or case decision shall be admissible as prima facie evidence of such conviction or discipline.
- 7. Failing to notify the board in writing within 30 days of pleading guilty or nolo contendere or being convicted or found guilty of any felony or of any misdemeanor involving lying, cheating, or stealing or of any violation while engaged in environmental remediation activity which resulted in the significant harm or the imminent and substantial threat of significant harm to human health or the environment.
- 8. Negligence, or a continued pattern of incompetence, in the practice of the discipline in which the asbestos license is held.
- 9. Failing or neglecting to send any information or documentation that was requested by the board or its representatives.
- 10. Refusing to allow state or federal representatives access to any area of an abatement site for the purpose of lawful compliance inspections.
- [11. Any unlawful act or violation of any provision of Title 54.1, Chapter 5 of the Code of Virginia or of the regulations of the board by any asbestos supervisor or asbestos worker may be cause for disciplinary action against the asbestos contractor for whom he works if it appears to the satisfaction of the board that the asbestos contractor knew or should have known of the unlawful act or violation.]
- B. Any individual <u>or firm</u> whose license[, <u>approval as an accredited asbestos training program</u>,] <u>or approval as an accredited asbestos training provider</u> is revoked under this section shall not be eligible to reapply for a period of one year from the effective date of the final order of revocation. The individual <u>or firm</u> shall meet all

1 2	education, experience and training requirements, complete the application and submit the required fee for consideration as a new applicant.			
3	submit the required ree for consideration as a new applicant.			
4	PART XIII.			
5 STANDARDS OF PRACTICE AND CONDUCT.				
6 LICENSED ASBESTOS CONTRACTORS.				
7 8	18 VAC 15-20-451. Asbestos contractor responsibilities.			
9	A. Linear description of the linear descript			
10	A. Licensed asbestos contractors shall comply with all requirements, procedures,			
standards and regulations covering any part of an asbestos project establishe the U.S. Environmental Protection Agency, the U.S. Occupational Safety				
	<del>-</del>			
13 14				
15 16	Environmental Quality (§54.1-517 Code of Virginia).			
17	B. Licensed asbestos contractors shall comply with the requirements found in §54.1-			
18	1100 of the Code of Virginia governing the regulation of general contractors.			
19	1100 of the code of virginia governing the regulation of general conductors.			
20	C. A licensed asbestos contractor shall employ only licensed asbestos supervisors and			
21	workers to perform work on any asbestos project.			
22	workers to perform work on any assessos project.			
23	D. A licensed asbestos contractor shall ensure that a licensed asbestos supervisor is			
24	present at each job site while an asbestos project is in progress.			
25	<u> </u>			
26	18 VAC 15-20-452. Maintenance of licensing and training records at the asbestos job site.			
27				
28	A. The asbestos contractor shall be responsible for maintaining at each job site a list			
29	of each licensed worker and supervisor, or copy of the licenses of each asbestos			
30	worker and supervisor. This list shall include the current license numbers and the			
31	license expiration dates of those workers and supervisors. This section does not			
32	relieve the contractor of any specific AHERA and ASHARA requirements			
33	concerning training certificates.			
34				
35	B. A licensed asbestos contractor shall maintain a copy of its Virginia asbestos			
36	contractor license on each job site.			
37	<u></u>			
38	C. Records maintained at the job site shall be available for review by the Department			
39				
40				
41	site.			
42				
43	18 VAC 15-20-453. Conflict of interest.			
44				
45	The following situations and relationships between license categories are deemed to			
46	represent a conflict of interest and are prohibited.			

1
2

## 

completion of the asbestos project.

1. It is a conflict of interest and a violation of these regulations for an asbestos contractor to have an employee/employer relationship with, or financial interest in, a laboratory utilized by the contractor for asbestos sample analysis. Laboratories owned by the building owner performing analysis on suspect asbestos samples taken from the building owners' property are exempt from this section.

- 2. It is a conflict of interest and a violation of these regulations for an asbestos contractor to have an employee/employer relationship with an asbestos project monitor working on an asbestos project performed by that asbestos contractor. An asbestos contractor shall not have any financial interests in the firm of which a project monitor is an employee and provides project monitoring services for that contractor. This section does not relieve a contractor of the OSHA personal monitoring requirements set forth in 29 CFR 1926.1101.
- 3. It is a conflict of interest and a violation of these regulations for an asbestos contractor to enter into a contract to perform an asbestos project if the asbestos inspection or project design was performed by individuals with an employer/employee relationship with, or financial interest in, the asbestos contractor, unless the asbestos contractor provides the building owner with the Virginia Asbestos Licensing Consumer Information Sheet and the Virginia Asbestos Licensing Inspector/Project Designer/Contractor Disclosure Form as prescribed by the department. The asbestos contractor's relationship with the asbestos inspector or project designer on the project shall be disclosed. The disclosure form shall be signed and dated by the licensed contractor and submitted as part of the bid. The disclosure form shall be kept on the asbestos project site and available for review.

#### 18 VAC 15-20-454. Transfer of asbestos contractor license.

The transfer of an asbestos contractor license is prohibited.

# PART XIV. STANDARDS OF PRACTICE AND CONDUCT. ASBESTOS PROJECT MONITORS.

observing and monitoring the activities of an asbestos abatement contractor on asbestos

projects to determine that proper work practices are used and compliance with all asbestos

laws and regulations is maintained, collecting environmental air samples during the asbestos

project, performing visual inspections of the work area and granting final clearance upon

The duties and functions of a project monitor include, but are not limited to,

18 VAC 15-20-455. Duties and functions.

[18 VAC 15-20-455.1. Abatement projects that require a project monitor.

1	
2	A project monitor is required on:
3	
4	1. Asbestos projects, performed in buildings that are occupied or intended to be
5	occupied upon completion of the asbestos project, exceeding 260 linear feet or
6	160 square feet or 35 cubic feet of asbestos containing material; or
7	100 square feet of 33 cubic feet of assessos containing material, of
8	2. Whenever the building or property owner deems it necessary to monitor asbestos
9	
	projects.]
10	18 VAC 15-20-456. Responsibilities.
11	16 VAC 13-20-430. Responsibilities.
12	A A-1
13	A. Asbestos project monitors shall conduct inspections of the contractor's work
14	practices and inspections of the containment [when the project monitor is present
15	each day abatement is performed].
16	
17	B. Asbestos project monitors shall maintain a daily log of all work performed. The
18	daily log shall include, but not be limited to, inspection reports, air sampling data,
19	type of work performed by the contractor, problems encountered and corrective
20	action taken.
21 22 23 24 25 26 27	
22	C. Asbestos project monitors shall take final air samples on all abatement projects,
23	except for abatement projects in residential buildings.
24	
25	D. Project monitors who analyze PCM air samples on site shall be employed by a
26	licensed analytical laboratory and shall be listed or have applied for listing in the
27	AAR [and rated acceptable or is accredited by AIHA or has been rated "proficient"
28 29	in the PAT Program's most recent round of asbestos evaluations].
29	
30	
31	PART XV.
32	STANDARDS OF PRACTICE AND CONDUCT.
33	ASBESTOS PROJECT DESIGNERS.
34	
35	18 VAC 15-20-457. Duties and functions.
36	10 VIIO 10 20 10 II Dates and Idinetions
37	The duties and functions of a project designer include, but are not limited to,
38	preparing an asbestos abatement project design, specifications for asbestos abatement
39	projects and addenda to abatement specifications.
40	projects and addenda to abatement specifications.
41	18 VAC 15-20-458. Responsibilities.
42	10 VAC 13-20-430. Responsibilities.
43	[A. Licensed asbestos project designers shall prepare a written project design for each
44	asbestos abatement project, except projects conducted in residential buildings.
	asoestos avatement project, except projects conducted in residential vandings.
45 46	[D ] The project design shall include that is not limited to:
46	[B.] The project design shall include, but is not limited to:

1	
2	1. Scope of work.
3	
4	2. Order of work[.]
5	
6	3. Work methods and practices to be used.
7	4. Number and type of final air complex to be taken
8 9	4. Number and type of final air samples to be taken.
10	PART XVI.
	STANDARDS OF PRACTICE AND CONDUCT.
12	ASBESTOS INSPECTORS AND MANAGEMENT PLANNERS.
11 12 13 14	
14	18 VAC 15-20-459. Duties and functions.
16	A. The duties and functions of an asbestos inspector include, but are not limited to
17	determining the presence and location of friable and nonfriable ACM, determining
18	the condition of ACM, and sampling suspect ACM.
19	
20	B. The duties and functions of an asbestos management planner include, but are no
21	limited to, preparing management plans to effectively manage ACM that will
22 22	remain in the building.
20 21 22 23 24 25 26 27 28	18 VAC 15-20-459.1. Responsibilities.
25	10 VIC 13 20 137.1. Responsibilities.
26	A. Asbestos inspectors shall conduct all asbestos inspections in accordance with 40
27	CFR 763.86.
28	
29	B. Asbestos inspectors shall prepare a written inspection report following an asbestos
30	inspection. The report shall contain, but is not limited to:
31 32	
	1. Inspector's name and license number.
33	
34	2. Location of all samples taken.
35	2 I d' La CITACIM I LACIM
36 37	3. Location and type of all ACM and assumed ACM.
38	4. Assessment of all ACM and assumed ACM.
39	4. Assessment of all ACM and assumed ACM.
<del>1</del> 0	5. Copy of the laboratory report.
41	5. Copy of the involutory report.
12	C. Asbestos management planners shall prepare all management plans in accordance
13	with 40 CFR Part 763.88.
14	

1	<u>PART XVII.</u>
2	STANDARDS OF PRACTICE AND CONDUCT.
3	ASBESTOS ANALYTICAL LABORATORIES.
4 5 6	18 VAC 15-20-459.2. General.
7	Asbestos analytical laboratories shall comply with all requirements, procedures,
8	standards and regulations covering all aspects of asbestos analytical services as established
9	by this chapter.
10	<del>o y maio e mapter i</del>
11	18 VAC 15-20-459.3. Responsibilities.
12	
13	A. Each asbestos analytical laboratory using PLM to analyze bulk suspect material
14	for the presence of asbestos shall analyze the material in accordance with
15	["Interim Method for the Determination of Asbestos in Bulk Insulation Samples"
16	EPA 600/R-93/116 Method of Determination of Bulk Asbestos found in
17	Appendix A to subpart F in 40 CFR Part 763 or the NIOSH method 9002.
18	
19	B. Each asbestos analytical laboratory using PCM to analyze air samples for the
20	presence of airborne fibers shall use the method outlined in Appendix A of
21	OSHA's 1926.1101 regulation or shall use the most recent version of NIOSH's
22	<u>7400 method.</u>
23	
24	C. Each asbestos analytical laboratory using TEM to analyze air samples for the
25	presence of airborne asbestos fibers shall use the method outlined in Appendix A
26	to subpart E of 40 CFR 763 or shall use the most recent version of NIOSH's 7402
27	method.
28	
29	18 VAC 15-20-459.4. Change of status.
30	
31	A. The licensee shall notify the department immediately of any addition or deletion
32	regarding employment of trained and experienced supervisors, and any changes
33	regarding the signing officer's relationship with the company.
34	
35	B. The licensee shall notify the board within 10 business days upon the loss of
36	accreditation or proficiency rating by NVLAP or AIHA by any laboratory location.
37	
38	C. The licensee shall notify the board, in writing, if the analysis to be performed is
39	different from the type of analysis in which the initial license was issued. The
40	licensee shall submit a new application reflecting the changes and submit the
41	qualifications required by this chapter to perform the analysis. The above
42	information shall be submitted to the board prior to performing the analysis. No
43	additional fees are required to upgrade the analytical laboratory license.
44	ment in the many man in the man in
45	18 VAC 15-20-459.5. License[certificate].

1	A. The transfer of an asbestos analytical laboratory license is prohibited. Whenever
2	there is any change in the controlling interest of the legal entity licensed, a new
3 4	license is required.
5	B. A copy of the current asbestos analytical laboratory license will be on site at all
6	times where analysis is performed, including project sites. The license shall be
7	available for review by the department.
8	
9	C. The board shall require asbestos analytical laboratories that wish to become or to
10	remain licensed in the Commonwealth to conform to any future additional
11	standards or regulations set forth by the EPA or accrediting entity.
12	standards of regulations set form by the British decreasing entity.
13	D. The licensee shall permit the board to conduct periodic on-site inspections and
14	evaluations of licensed asbestos analytical laboratory facilities. The inspections
15	shall include, but not be limited to, equipment, procedure and protocol records,
16	training and accreditation documentation and any other program evaluation results
17	on file. Prior notice of such inspections is not required.
18	on the. Thor notice of such hispections is not required.
19	PART XVIII.
20	ACCREDITED ASBESTOS TRAINING PROGRAM APPROVAL.
21	ACCREDITED ASDESTOS TRAINING I ROOKAWI AITROVAL.
22	18 VAC 15-20-459.6. Accredited asbestos training program requirements.
23	10 VIIC 13 20 137.0. Treefedited assestes training program requirements.
24	A. Training programs desiring board approval shall meet the minimum requirements
25	established in this chapter. Persons requesting approval as an accredited asbestos
26	training program to prepare training program participants for licensure
27	requirements shall submit an accredited asbestos Training Program Review and
28	Audit Application with the following required information:
29	radic repriection with the following required information.
30	1. Training provider's business name, physical address, mailing address, and phone
31	number.
32	number.
33	2. Copies of approval letters issued by EPA or other states granting approval of
34	asbestos training programs presented by the provider.
35	assestos training programs presented by the provider.
36	3. Applicable fee.
37	5. Applicable fee.
38	1. The training program enginelym
39	4. The training program curriculum.
	5 A normative explanation that states have the training program mosts the
40	5. A narrative explanation that states how the training program meets the
41 42	requirements for approval in the following areas:
	a Langth of training in hours
43 44	a. Length of training in hours.
44	h Amount and type of hands on training
45 46	b. Amount and type of hands-on training.
<del>+</del> U	

1	c. Examinations (length, format and passing score).
2	1 77 1 1 1 1 1 1 1
3 4	d. Topics covered in the training program.
5	e. Assurances of test security and how exams are administered.
6 7	6. A copy of all training program materials including, but not limited to, student
8	manuals, instructor notebooks, handouts, and training aids.
9	manuals, instructor notebooks, nandouts, and training aids.
10	7. A copy of the examination(s) used and applicable answer sheets.
11	7. 11 copy of the examination(s) used the apprecion this wer sheets.
12	8. The names and qualifications, including education and experience, of each
13	instructor and subject areas that each instructor will teach.
14	instructor and subject arous that each histractor will teach
15	9. A description of and an example of a certificate that will be issued to students who
16	successfully complete the accredited asbestos training program. The certificate
17	shall contain the information required by this chapter.
18	<del> </del>
19	10. A proposed training program date for auditing purposes. The proposed date will
20	be confirmed or an alternate date will be proposed within ten business days after
21	receipt of a complete accredited asbestos training program submission and the
22	required fee.
23	
24	B. A complete submission shall consist of all information required by this section.
25	Receipt of application and deposit of fees by the department in no way indicates
26	approval of a training program.
27	
28	C. A complete application shall be submitted to the department no less than 45 days
29	prior to the requested audit date.
30	
31	<u>18 VAC 15-20-459.7. Approval process.</u>
32	
33	A. Upon receipt of a completed application, a preliminary review will be conducted
34	to ensure all written material and other documentation is accurate and up to date.
35	If any deficiencies are noted, a letter will be sent to the applicant indicating the
36	deficiencies and necessary steps to correct them. All deficiencies noted during the
37	preliminary review shall be corrected prior to the on-site audit.
38	
39	B. Upon successful completion of the preliminary review, an on-site audit shall be
40	conducted to complete the application process. If any deficiencies are noted
41	during the audit, the training provider will be informed, either in writing or
42	verbally, and offered an opportunity to correct them. Once the audit is complete
43	and any deficiencies corrected, a letter of approval will be sent to the accredited
44	asbestos training program.
45	10 MAC 15 20 450 9 Eveningtion
46	<u>18 VAC 15-20-459.8. Examination.</u>

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45 46 All accredited asbestos training programs approved by the board shall have a monitored, final written examination, except for asbestos workers needing an oral examination. The board recommends the examination include a practical component to test skill in asbestos abatement techniques. Students shall obtain a minimum examination grade of 70% correct. Records of the participant's examination shall be maintained in accordance with this chapter.

<u>18 VAC 15-20-459.9.</u> Letters of approval.

Letters of approval for accredited

Letters of approval for accredited asbestos training programs shall be maintained at the business address listed on the approval letter and made accessible to the public. Each provider of an approved accredited asbestos training program shall maintain all records at the business address. The required records shall be available for review upon demand by the board or its representatives.

<u>18 VAC 15-20-459.10.</u> Refresher approval.

- A. Refresher training programs shall be one day (8 hours) for supervisors, workers, project designers and project monitors, and one-half day (4 hours) for inspectors and management planners. The refresher training program shall review federal and state regulations; discuss changes to the regulations, if applicable, developments in state-of-the-art procedures; and a review of key aspects of the initial training program.
- B. Persons wishing to [sponsor conduct] refresher training programs shall submit a training program review and audit application as established in 18 VAC 15-20-459.6.

18 VAC 15-20-459.11. Renewal of accredited asbestos training programs.

Providers of accredited asbestos training programs desiring to renew their approval shall submit the renewal notice to the department along with the following:

- 1. Appropriate [Ff]ee.
- 2. [List Name] of [the] training program[s] for which they are renewing.
- 3. Any changes made to the training program[(s)].
- 4. Dates on which the training material was last updated.
- [5. Statement indicating that the training program continues to meet the regulation requirements established in this chapter.]
- 18 VAC 15-20-459.12. Changes to an approved accredited asbestos training program.

1	
2	Once an accredited asbestos training program has been approved, prior to the
3	continuation of the accredited asbestos training program, substantial changes in the
4	information required by subdivisions 1 through 5 of this section shall be submitted to the
5	board for review and approval. The board will state its approval or disapproval of the
6	changes by mail.
7	
8	1. Training Program curriculum.
9	
10	2. Training Program examination.
11	2. Tuoining Duoguam motorials
12 13	3. Training Program materials.
13 14	4. [Primary Principal] instructors [and work practice instructors].
15	4.   1 Timary 1 Timerpar   instructors   and work practice instructors  .
16	5. Certificate of completion.
17	<del></del>
18	18 VAC 15-20-459.13. Transfer of approval of an accredited asbestos training program.
19	
20	The transfer of the approval of an accredited asbestos training program will require a
21	review by the following procedure:
22	
23	1. The applicant for transfer shall submit an application to the department and
24	materials for review to determine if substantial changes have been made to the
25 26	program. All submissions shall be in accordance with 18 VAC 15-20-459.6.
26 27	2. Receipt of applications and deposit of fees submitted does not indicate approval of
28	the transfer.
29	the transfer.
30	3. A review of the submitted materials shall be performed to determine if substantial
31	changes have been made. A substantial change is defined as a change in training
32	program materials, curriculum, [primary principal] instructors or facilities at the
33	time of transfer of the accredited asbestos training program. A complete field
34	audit may be conducted of any applicant believed to have made a substantial
35	<u>change.</u>
36	10 3/4 C 15 20 450 14 A 1 1 1 4 4
37	18 VAC 15-20-459.14. Access by the department.
38 39	Accredited asbestos training [program] providers shall permit departmen
39 40	representatives to attend, evaluate, and monitor any accredited asbestos training program.
<del>4</del> 0 41	Prior notice of attendance by agency representatives is not required.
42	21101 House of anomalies of agone, representatives is not required.
43	18 VAC 15-20-459 15 Suspension or revocation of approval of an accredited ashestos

45

training program.

1	A. The board may withdraw approval of any accredited asbestos training program for
2	the following reasons:
3	
4	1. The school, instructors, or training programs no longer meet the standards
5	established in this chapter.
6	estublished in this chapter.
7	2. The board determines that the provider is not conducting the training in a manner
8	
	that meets the requirements as set forth in this chapter.
9	
10	3. Suspension or revocation of training approval in another state or by the EPA.
11	
12	B. Decisions regarding withdrawal of approval shall be made by the board under the
13	provisions of the Virginia Administrative Process Act (§ 9-6.14:1 et seq. of the
14	Code of Virginia).
15	
16	PART <del>XIV</del> . <u>XIX</u>
17	TRAINING PROVIDER REQUIREMENTS.
18	ACCREDITED ASBESTOS TRAINING PROGRAM PERFORMANCE STANDARDS.
19	
20	18 VAC 15-20-460. General.
21	
22	This part outlines the record keeping responsibilities for an individual, a business, an
23	agency, an institution or a sponsor [a provider an accredited asbestos training provider
24	(training provider)]performing asbestos training under Virginia law. All records are required
25	to be available for review by representative s of the board. Records required to be maintained
26	by the training provider must shall be maintained at the address on the at the physical
27	· · · · · · · · · · · · · · · · · · ·
	location of the accredited asbestos training provider. Certificate of Approval of the asbestos
28	training course. All training requirements are in accordance with ASHARA (40 CFR 763
29	Appendix C to Subpart E ), the EPA April 1990 memorandum, or recommended EPA policy.
30	10 TH G 15 00 450 P
31	18 VAC 15-20-470. Record keeping.
32	
33	A. For all <u>accredited asbestos</u> training <del>courses</del> <u>programs</u> approved by the board, the
34	training providers shall keep a list of all course training program participants
35	attending the <u>accredited asbestos</u> training <del>course</del> <u>program</u> . The list shall contain
36	the following minimum information:
37	
38	1. Training provider;
39	
40	2. Date of training;
41	
42	3. Location of training course program presentation;
43	11
44	4. Type and length of training;
45	Type and length of duming,
46	5. Course Training program [director manager] and [primary, principal] instructor;
ŦŪ	o. Course Training program [unrector manager] and [primary, principal] instructor,

1 2	6. Course Training program participant's name as it will appear on the Certificate of
3 4	Completion to be issued by the training provider;
5 6	7. Participant 's employer, if applicable;
7 8	8. Participant's name, address, and social security number;
9	9. Participant's Virginia asbestos license number, if applicable;
10	10 777 1.1 .101
11	10. The resulting certificate number assigned to a participant who successfully
12	completes the course accredited asbestos training program when applicable and
13	expiration date; <u>and</u>
14	
15	11. The participant's examination score, when applicable.
16	
17	B. The course training program participant list shall be completed by the training
18	provider and course training program participants daily.
19	
20	C. The course training program participant [listing list] shall be retained by the
21	training provider for three years following the date of completion of the training
22	course program.
23	course <u>program</u>
24	[D.] The course participant list shall be submitted to the board within five working
	- <del></del> -
25	days, after the last day of the course. [The training provider shall provide to the
26	board the training program participant list as described in subsection A of this
27	section within 24 hours of training program completion.]
28	
29	$[\underline{\mathbf{P}}\ \underline{\mathbf{E}}.]$ . The training provider shall retain all examinations completed by eourse
30	training program participants for a period of three years.
31	
32	[E.F.] Training providers shall notify the department no less than 48 hours prior to
33	conducting an accredited asbestos training program. [The department will not
34	recognize training certificates from approved training providers that fail to notify.]
35	
36	[G. The department will not recognize training certificates from approved training
37	providers that fail to notify or fail to provide a training program participant list.]
38	<u></u>
39	18 VAC 15-20-480. Course Accredited asbestos training program outline and syllabus.
40	10 VIC 13 20 100. Course recreated assesses training program outline and syndous.
41	A. Prior to the start of the <u>accredited asbestos</u> training <del>course</del> <u>program</u> , the training
42	provider shall prepare a course outline or syllabus. The outline shall contain the
43	following minimum information:
44	
45	1. Course Training program title and length of training;

1 2	2. Starting time of each day of training;
3	3. Course Training program section, inclusive length of training time for each section
4	and instructor for each course program section;
5	and instructor for each course program section,
6	4. Scheduled breaks and inclusive length of breaks;
7	4. Scheduled breaks and melasive length of breaks,
8	5. Scheduled lunch break and inclusive length of break;
9	3. Scheduled functi break and inclusive length of break,
10	6 Schoduled hands on training a description of the training to be performed length
10	6. Scheduled hands-on training, a description of the training to be performed, length of training and name of the instructor or instructors; and
12	of training and name of the instructor of instructors, and
	7. Examination and inclusive length of examination time
13	7. Examination and inclusive length of examination time.
14	
15	B. The training provider shall disseminate the course training program outline or
16	syllabus to all course training program participants. A copy of the [course training
17	<u>program</u> ] outline shall be retained by the training provider for a period of three
18	years following the completion of the training course program.
19	
20	18 VAC 15-20-490. Certificates of completion.
21	
22	A. Following attendance of the <u>accredited asbestos</u> training <del>course</del> <u>program</u> and
23	successful completion of an examination by the course training program
24	participant, the training provider shall issue a Certificate of Completion to the
25	course training program participant. The certificate shall contain the following
26	minimum information:
27	
28	1. Training provider's business name;
29	
30	2. Training provider's business address and phone number;
31	•
32	3. Location of training;
33	
34	4. Typewritten or printed name of course training program participant;
35	· · · · · · · · · · · · · · · · · · ·
36	5. Course Training program title and length of training in hours;
37	
38	6. Certificate number;
39	
40	7. Inclusive course training program dates;
41	, v moras in the course of the
42	8. Examination date;
43	· —···································
44	9. An expiration date one year subsequent to after the date of completion of the
45	accredited asbestos training course program;
46	decreated assessos daming course program,
10	

1	10. For courses training programs covered under 40 CFR Part 763, Subpart E,
2	Appendix C, a statement that the person receiving the certificate has completed the
3	requisite training for asbestos accreditation under TSCA Title II;
4	
5	11. Statement of attendance and successful completion of an examination by the
6	course training program participant; and
7	eourse training program participant, and
8	12. Signature and typewritten or printed name of course the accredited asbestos
9	training program [director manager] or administrator and [primary principal]
10	instructor. The signature may be a printed facsimile.
11	instructor. The signature may be a printed facsimile.
12	P. Changes to the Cartificate of Completion shall be submitted to the heard for
	B. Changes to the Certificate of Completion shall be submitted to the board for
13	review and approval prior to issuance to course training program participants.
14	10 X/4 C 15 A0 500 C
15	18 VAC 15-20-500. Course <u>Training program materials</u> : course <u>training program manuals</u> ;
16	video instruction; training equipment.
17	
18	A. All training course program participants shall be issued a course training program
19	manual for the asbestos training course program.
20	
21	All materials will be legible and, in the case of Virginia approved training courses,
22	submitted for review and approval by the board at least 45 days prior to being used by a
23	course participant in an asbestos training course.
24	
25	The training provider shall retain a copy on file for a period of three years following
26	any amendments to the manual.
27	
28	B. Use of video instruction is permitted as a method of instruction in a Virginia
29	approved an accredited asbestos training course. program, provided that videos are
30	not the sole and primary source of instruction unless it is an interactive video[s].
31	
32	Videos shall not be the primary source of instruction unless it is an interactive video.
33	
34	All videos utilized in a Virginia approved asbestos training course shall have
35	undergone the review and approval process required in Part XIV of this chapter.
36	
37	Videos shall be made available to the board, if requested, during an on-site audit or
38	inspection.
39	
40	C. In no case will equipment utilized for display or part of hands-on training have
41	been utilized on an asbestos abatement project site.
42	2 0
43	Equipment will be dedicated for training use only.
44	· ·
45	The training provider shall keep a listing of all equipment utilized for training on file.
46	

1	The equipment list will contain the following minimum information:
2	1. Equipment broad name
3 4	1. Equipment brand name;
5	2. Equipment description; and
6	2. A statement of how the equipment is to be utilized in the econodited schools.
7 8	3. A statement of how the equipment is to be utilized in the <u>accredited</u> asbestos
9	training <del>course</del> <u>program</u> .
10	The equipment list will be updated as new equipment is added as part of an asbestos
11	training program and retained for a period of three years.
12	tunning program and retained for a period of three years.
13	The dated equipment list will be updated as new equipment is added as part of an
14	accredited asbestos training program and each list must be maintained for a period of three
15	years.
16	<del>jeus.</del>
17	18 VAC 15-20-510. Approval of instructors.
18	11
19	A. The qualifications of all instructors are required to be reviewed by the board prior
20	to the instructor teaching in a Virginia approved asbestos training course. If the
21	board deems the instructor's qualifications inadequate, the department will
22	promptly notify the provider. Guest lecturers who do not teach a course on a
23	routine basis are exempt from this section.
24	•
25	B. Each training provider shall appoint one instructor to act as the primary instructor.
26	The primary instructor will be responsible for the overall training program and act
27	as a point of contact to the board. The training provider shall notify the board in
28	writing of the appointed primary instructor.
29	
30	C. Training providers shall notify the board in writing whenever it changes course
31	<del>instructors.</del>
32	
33	18 VAC 15-20-511. Instructor qualifications.
34	
35	A. An approved accredited asbestos training program shall employ a training manager
36	who:
37	1.11
38	1. Has a minimum of two years experience in teaching adults, or
39	2. Has a minimum of three years armaniance in the ashestes shotament industry.
40 41	2. Has a minimum of three years experience in the asbestos abatement industry.
42	B. An approved accredited asbestos training program shall use principal instructors
43	who:
44	WHO.
45	1. Have a minimum of 24 hours of asbestos specific training, and
46	1. 114.70 a minimum of 2.1 hours of assessor specific training, and

1	2. Have a minimum of two years experience in the asbestos abatement industry, or
2	have a minimum of two years [experience] in teaching adults.
3	
4	C. Documentation of all instructor qualifications shall be reviewed and approved by
5	the board prior to the instructor teaching in an accredited asbestos training
6	program.
7	
8	D. Guest instructors are exempt from instructor qualifications and are limited to no
9	more than two hours of training per day.
10	
11 12	18 VAC 15-20-520. Number of instructors required to provide training.
13	A. The board strongly recommends a minimum of two instructors to teach a Virginia
14	approved an accredited asbestos initial worker course training program.
15	
16	B. The board requires at At least two instructors shall be used for each Virginia
17	approved supervisor, inspector, management planner, project designer and project
18	monitor initial course accredited asbestos training program.
19	
20	C. One instructor is adequate per [accredited asbestos] refresher eourse training
21	<u>program</u> .
22	
23	D. At least one instructor shall be in the <u>class classroom</u> and available to the students
24	at all times during the course [accredited asbestos] training program.
25	10 VAC 15 20 520 Ct-1
26	18 VAC 15-20-530. Student to instructor ratios.
27	A. Hands on twining manns on avaluation which tasts the twines's chility to
28 29	A. Hands-on training means an evaluation which tests the trainee's ability to satisfactorily perform the work practices and procedures in this chapter and is to
30	shall be overseen by the instructor at a ratio of no more then than 10 students to
31	one instructor.
32	one instructor.
33	B. There shall be no more than three course training program participants in any
34	hands-on exercise, except for <u>a</u> hands-on training exercise which involves building
35	containments.
36	contamments.
37	18 VAC 15-20-540. Distinct training disciplines.
38	To The to 20 c for 2 to many other process.
39	All initial and refresher accredited asbestos training courses programs shall be
40	discipline specific.
41	1 1
42	18 VAC 15-20-550. Completion of training.
43	
44	The total hours of actual training must be completed within a single two-week time
45	frame, from the start time of initial training. The total hours of actual training for an initial

1	training program, including examinations, shall be completed within a single two-week time
2	frame, from start to finish.
3	10 MAC 15 20 560. Langth of twining
4	18 VAC 15-20-560. Length of training.
5	The following are the requirements for length of training for <del>Virginia approved</del> an
6 7	accredited asbestos training course program:
8	accredited aspestos training eourse program.
9	1. In no case shall actual asbestos training exceed eight hours in a 24-hour period;
10	1. In no case shan actual aspestos training exceed eight nours in a 24 nour period,
11	2. Training given during evening hours (after 5 p.m. and before 8 a.m.) may not
12	exceed four hours, except training that is conducted during the student's second or
13	third shift of working hours; and
14	unit of working nours, and
15	3. Training performed on weekends (Friday after 5 p.m. to Monday 8 a.m.) may not
16	exceed 16 hours.
17	
18	18 VAC 15-20-570. Non-English speaking <u>accredited asbestos</u> training <del>courses</del> <u>programs</u> .
19	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20	All Virginia approved asbestos training courses All [accredited] asbestos training
	programs shall be taught in English. Asbestos Accredited asbestos worker training courses
22	programs are exempt from this section.
21 22 23 24 25 26	
24	18 VAC 15-20-580. Examinations.
25	
26	A. All asbestos training courses approved by the board and utilized for licensure by
27	the board-accredited asbestos training programs shall contain an examination
28	following the instructional portion of the <u>accredited</u> asbestos training <del>course</del>
29	<u>program</u> . This requirement shall apply to all <del>Virginia approved courses</del> <u>accredited</u>
30	asbestos training programs regardless of course training program location.
31	
32	B. Oral examinations, except for workers, are not permitted in a Virginia approved
33	asbestos training course permitted in an accredited asbestos training program.
34	Trainers who provide worker oral examinations shall issue an answer sheet to be
35	marked by the student. The student shall sign the answer sheet and it shall become
36	a part of the trainers training provider's required record keeping under 18 VAC 15
37	<del>20-470 E</del> .
38	C. Empiredians in Language of the Emplish on Landau manifest in constitution
39	C. Examinations in languages other than English are [only] permitted in accredited
40 4.1	asbestos worker <del>courses</del> <u>training programs</u> [ <del>only</del> ].
41 42	D. Evaminations shall be given in the language of the laceredited aspectos training
+2 43	D. Examinations shall be given in the language of the [accredited asbestos] training program's [course] instruction.
+3 14	program s [course] mstruction.
4 <del>5</del>	E. Reexamination following unsuccessful completion of the examination is permitted
<del>1</del> 5	in a Virginia approved asbestos training course. The reexamination shall be

1	limited to one attempt to pass following the initial examination. If the participant
2	fails to achieve a 70% passing score after the second attempt, the participant must
3	shall retake the <u>accredited asbestos</u> training <del>course</del> <u>program</u> before he is permitted
4	to take a retest. The training provider shall retain all the examinations completed
5	by the course [accredited asbestos] training program participant in compliance
6	with 18 VAC 15-20-470 E the record keeping requirements of this chapter.
7	
8	18 VAC 15-20-590. Change of address, phone number or contact person.
9	
10	Training providers approved by the board Providers of accredited asbestos training
11	programs are required to notify the board in writing of changes of address, phone number or
12	[primary principal] instructor within 30 business days of after changes to any of these items.
13	
14	18 VAC 15-20-600. Termination of training.
15	
16	When a board approved training provider ceases to conduct training, the training
17	provider training provider ceases to conduct any of its training [courses programs], it shall
18	notify the board in writing and give the board the opportunity to take possession of the
19	provider's asbestos training records <u>relating to such [courses programs]</u> .
20	
21	18 VAC 15-20-610. EPA ASHARA compliance.
22	
23	All Virginia-approved asbestos training providers accredited asbestos training
24	<u>programs</u> shall be in compliance with all training and record keeping requirements
25	established by the <del>US</del> EPA Model Accreditation Plan, 40 CFR Part 763, Subpart E.
26	
27	
28	PART XV.
29	TRAINING COURSE APPROVAL PROCESS.
30	
31	18 VAC 15-20-620. Training course approval requirements. (Repealed)
32	
33	The Virginia accreditation program has been granted approval by the United States
34	Environmental Protection Agency under the provisions found in 40 CFR 763 Subpart F. All
35	EPA recognized asbestos training courses approved by the board will concurrently be granted
36	USEPA approval.
37	
38	All approved training courses shall meet the minimum requirements as outlined in
39	this chapter. Individuals, businesses, agencies or institutions requesting approval of a
40	proposed asbestos training course to prepare course participants for licensure requirements
41	shall submit a Training Course Review and Audit Application with the following required
42	information:
43	
44	1. Training provider's business name, physical address, mailing address, and phone
45	<del>number;</del>

	<ol> <li>Copies of approval letters issued by USEPA or other states granting approval to asbestos training courses presented by the training provider;</li> </ol>
	3. Applicable fee (see the evaluation fee schedule located in Part XVII of this
	chapter);
	enapter),
	4. The course curriculum;
	5. A narrative explanation that states how the course meets the requirements for
	approval in the following areas:
	a. Length of training in hours;
	b. Amount and type of hands on training;
	c. Examinations (length, format and passing score);
	d. Topics covered in the course; and
	e. Assurances of test security and how exams are administered.
	6. A copy of all course materials (student manuals, instructor notebooks, handouts,
	etc);
	7. A detailed statement providing information about the development of the
	examination used in the course;
	8. The names and qualifications, including education and experience of each
	instructor and subject areas that each instructor will teach;
	9. A description of and an example of a certificate that will be issued to students who
	successfully complete the course. The certificate shall contain the information
	noted in 18 VAC 15-20-490; and
	10. A managed course data for ouditing numbers. The managed data will be
	10. A proposed course date for auditing purposes. The proposed date will be confirmed or an alternate date will be proposed within 10 business days of receipt
	of a complete training course submission and the required fee.
	or a complete training course submission and the required ree.
_	A complete submission consists of all items listed in this section. Receipt of
2	application and deposit of fees by the board in no way indicates approval of a training course
a	application and deposit of fees by the board in no way indicates approval of a training course
1	8 VAC 15-20-630. Examination. (Repealed)
	to the 10 20 oco. Edinimumon (repense)
_	All courses approved by the board are required to have a monitored, final written
e	examination, except for workers needing an oral examination. The board recommends the
e	examination include a practical component to test skill in asbestos abatement techniques.
•	

1	Students must obtain a minimum exam grade of 70% correct. Records of the participants
2	examination shall be maintained in accordance with 18 VAC 15-20-470 E.
3	
4	18 VAC 15-20-640. Letters of course approval. (Repealed)
5	
6	Letters of course approval shall be maintained at the business address listed on the
7	course approval letter and made accessible to the public. An approved school shall maintain
8	all records at the business address. The required records shall be available for review upon
9	demand by the board or its representatives.
10	demand by the board of its representatives.
11	18 VAC 15-20-650. Refresher course approval. (Repealed)
12	16 VAC 13-20-050: Refresher course approval. (Repealed)
13	Refresher courses shall be one day (eight hours) for supervisors, workers, project
14	designers and project monitors, and 1/2 day (four hours) for inspectors, management
15	planners and RFS training courses. The refresher course shall review federal and state
16	regulations, discuss changes to the regulations if applicable, developments in state of the art
17	procedures and a review of key aspects of the initial training course.
18	
19	Individuals, businesses, agencies, or institutions wishing to sponsor refresher training
20	courses shall submit a training course review and audit application required by 18 VAC 15
21	<del>20-620.</del>
22	10 VAC 17 20 CC0 Cl
23	18 VAC 15-20-660. Changes to an approved training course. (Repealed)
24	
25	Once a training course has been approved, substantial changes in the items listed
26	below must be submitted to the board for review and approval prior to the continuation of the
27	training course. The board will state its approval or disapproval of the changes by mail.
28	
29	1. Course curriculum.
30	
31	2. Course examination.
32	
33	3. Course materials (as specified in 18 VAC 15-20-620, 18 VAC 15-20-630 and 18
34	<del>VAC 15-20-650).</del>
35	
36	4. Primary instructors and course director.
37	
38	5. Certificate of Completion.
39	
40	18 VAC 15-20-670. Transfer of Virginia approval of an asbestos training course. (Repealed)
41	
42	The transfer of a Virginia approved asbestos training course or program by sale of
43	ownership will require a review of the course or program by the following procedure:
44	
45	1. The transfer of a Virginia approved asbestos training course is subject to review by
46	the board, and requires an application to the board and submission of materials for

1	review to determine if substantive changes have been made to the course or
2	program. All submissions shall be in accordance with 18 VAC 15-20-620 or 18
3	VAC 15-20-650.
4	
5	2. Receipt of applications and deposit of fees submitted to the board does not indicate
6	approval of the transfer.
7	
8	3. A review of the submitted materials will be performed by the board to ascertain if
9	substantial changes have been made to the training course. A substantial change is
10	defined as a change in course materials, curriculum, primary instructors or
11	facilities at the time of transfer of the asbestos training course or program. The
12	board may conduct a complete field audit of any training course it believes has
13	undergone a substantial change at the cost of the new owner.
14	undergone a substantial enange at the cost of the new owner.
15	18 VAC 15-20-680. Attendance by the department. (Repealed)
16	16 VAC 13-20-000: Attendance by the department. (Repealed)
17	Training course sponsors shall permit department representatives to attend, evaluate,
18	and monitor any training course. Prior notice of attendance by agency representatives is not
19	required.
20	required.
21	19 VAC 15 20 600 Suprancian or reveastion of approval of a training source (Panceled)
22	18 VAC 15-20-690. Suspension or revocation of approval of a training course. (Repealed)
	A. The board may with draw amount of any amount training covers for the
23	A. The board may withdraw approval of any approved training course for the
24	following reasons:
25	1. The sale of instructors on coveres no longer most the standards established in this
26	1. The school, instructors, or courses no longer meet the standards established in this
27	<del>chapter; and</del>
28	
29	2. The board determines an approved individual, business, agency, institution or
30	sponsor is not conducting the training in a manner that meets the requirements as
31	set forth in this chapter.
32	
33	B. Suspension or revocation of training approval in another state or by the EPA may
34	be grounds for suspension or revocation in Virginia.
35	
36	C. If the approval of a training course is revoked or suspended, the board will
37	promptly notify the individual business, agency, institution, or sponsor in writing
38	of the reason for the suspension or revocation. In the case of a suspension, the
39	steps necessary to comply with the regulations will be stated in writing. Decisions
40	regarding revocation or suspension of approval may be appealed under the
41	Virginia Administrative Process Act (§ 9-6.14:1 et seq. of the Code of Virginia).
42	
43	<del>PART XVI</del> <u>PART XX</u> .
44	ACCREDITED ASBESTOS TRAINING COURSE PROGRAM REQUIREMENTS
45	STANDARDS.
46	<del></del>

1 2	18 VAC 15-20-700. General.
3 4 5 6 7 8	In all of the following <u>accredited asbestos</u> training <u>course program</u> [(training <u>program</u> )] requirements, one day shall be equal to eight hours, <u>inclusive of lunch and breaks.</u> In all refresher training course requirements one day shall be equal to eight hours. All training courses, except project monitor, shall meet the minimum requirements set forth in ASHARA (40 CFR 763).
9	18 VAC 15-20-710. Worker training.
10	
11	Asbestos abatement workers shall complete at least a four day (32 hours) training
12	course program as outlined below. All training courses programs shall be approved by the
13	board. The <u>accredited asbestos</u> training <u>eourse</u> <u>program</u> shall include lectures,
14	demonstrations, at least 14 hours of hands-on training, a course training program review, and
15	an examination.
16	
17	The training shall address the following topics:
18	
19	1. Physical characteristics of asbestos.
20	
21	a. Identification of asbestos.
22	
23	b. Aerodynamic characteristics.
24	
25	c. Typical uses and physical appearance.
26	d. A symmony of shotoment control entions
27	d. A summary of abatement control options.
28 29	2. Potential health effects related to asbestos exposure.
30	2. Potential health effects felated to aspestos exposure.
31	a. The nature of asbestos-related diseases.
32	a. The nature of aspestos-related diseases.
33	b. Routes of exposure, dose-response relationships and the lack of a safe
34	exposure level.
35	exposure level.
36	c. Synergism between cigarette smoking and asbestos exposure.
37	e. Synergism between eigenette smoking und asbestos exposure.
38	d. Latency period for disease.
39	di Ediciley period for discusei
40	3. Employee personal protective equipment.
41	er zamprojet personar protesta e equiparent
42	a. Classes and characteristics of respirator types.
43	
44	b. Limitations of respirators and their proper selection, inspection, donning,
45	use, maintenance, and storage procedures.
46	, 0 1

2	c. Methods for field testing of the facepiece-to-face seal (positive and negative pressure fitting tests).
3 4	d. Qualitative and quantitative fit testing procedures.
5 6 7	e. Variability between field and laboratory protection factors.
8 9	f. Factors that alter respirator fit (e.g., facial hair).
10 11	g. The components of a proper respiratory protection program.
12 13	h. Selection and use of personal protective clothing; use, storage, and handling of nondisposable clothing.
14 15 16	i. Regulations covering personal protective equipment.
17 18	4. State-of-the-art work practices.
19 20 21	<ul> <li>a. Asbestos abatement activities including descriptions of construction and maintenance of barriers and decontamination enclosure systems.</li> </ul>
22 23	b. Positioning of warning signs.
24 25	c. Electrical and ventilation system lock-out.
26 27 28 29	d. Working techniques for minimizing fiber release, use of wet methods, use of negative pressure ventilation equipment, use of high efficiency particulate air (HEPA) vacuums.
30 31	e. Clean-up and disposal procedures.
32 33	f. Work practices for removal, encapsulation, enclosure, and repair.
34 35	g. Emergency procedures for sudden releases.
36 37	h. Potential exposure situations, and transport and disposal procedures.
38 39	i. Recommended and prohibited work practices.
40 41	5. Personal hygiene.
42 43 44	a. Entry and exit procedures for the work area, use of showers, avoidance of eating, drinking, smoking, and chewing (gum or tobacco) in the work area.
45 46	b. Potential exposures, such as including family exposure.

1	6. Additional safety hazards.
2	
3	a. Hazards encountered during abatement activities and how to deal with
4	them, including electrical hazards, heat stress, air contaminants other than
5	asbestos, fire and explosion hazards.
6 7	b. Scaffold and ladder hazards.
8	o. Scarroid and fadder mazards.
9	c. Slips, trips and falls.
10	c. Sups, tups and rans.
11	d. Confined spaces.
12	d. Commed spaces.
13	7. Medical monitoring.
14	7. Modical monitoring.
15	a. OSHA requirements for a pulmonary function test.
16	un commission ion u punnomun iumenon com
17	b. Chest X-rays and a medical history for each employee.
18	
19	8. Air monitoring.
20	
21	a. Procedures to determine airborne concentrations of asbestos fibers.
22	
23	b. Focusing on how personal air sampling is performed and the reasons for it.
24	
25	9. Relevant federal, state and local regulatory requirements, procedures and standards,
26	with particular attention directed at relevant <del>US</del> EPA, OSHA, and state regulations
27	concerning asbestos abatement workers and Department of Transportation
28	regulations (49 CFR 172 Subpart H), with emphasis on packaging requirements
29	and marking of containers of ACM waste.
30	
31	10. Establishment of respiratory protection programs.
32	11 Comme Tradicion anno anno anno anno anno anno anno a
33	11. Course Training program review. A review of key aspects of the accredited
34	asbestos training course program.
35 36	18 VAC 15-20-720. Examinations: Asbestos abatement worker.
37	18 VAC 13-20-720. Examinations. Aspestos abatement worker.
38	Upon completion of an approved initial training course program, a closed-book
39	examination will be administered. Demonstration testing will also be permitted as part of the
40	examination. Each examination shall cover the topics included in the training course
41	program. Persons who pass the examination and fulfill the course training program
42	requirements will receive a Certificate of Completion as specified in 18 VAC 15 20 490 this
43	chapter. The following are the requirements for an examination:
44	
45	1. Fifty multiple choice questions; and

1	2. Passing score: 70% correct.
2 3	10 MAC 15 20 720 Defreches training accuracy and grown
3 4	18 VAC 15-20-730. Refresher training course program.
5	A. Accredited asbestos Refresher refresher courses training programs shall be one day
6	(eight hours) for asbestos abatement workers. The course training programs shall
7	review federal and state regulations, discuss changes to the regulations, if
8	applicable, and developments in state-of-the-art procedures. A review of the
9	following topics from the initial course accredited asbestos training program shall
10	be included in the accredited asbestos worker refresher training program:
11	
12	1. Potential health effects related to asbestos exposure;
13	
14	2. Employee personal protective equipment;
15	
16	3. State-of-the-art work practices (with emphasis on work practices for removal,
17	encapsulation, encasement, enclosure and repair and proper working techniques for
18	minimizing fiber release, use of wet methods, use of negative pressure ventilation equipment
19	and the use of high efficiency particulate air (HEPA) vacuums);
20	4 P. 11 ' 1
21	4. Personal hygiene; and
22	5 Additional anfatry harrands
23 24	5. Additional safety hazards.
25	B. A written closed-book examination shall be included in the refresher course
26	training program. The examination will consist of no fewer than 50 questions. The passing
27	score will be 70% correct. Persons who pass the examination and fulfill the course training
28	program requirements will receive a Certificate of Completion as specified in 18 VAC 15
29	20-490 this chapter.
30	
31	18 VAC 15-20-740. Supervisor training.
32	
33	Asbestos abatement supervisors shall complete a five day (40 hours) training course
34	<u>program</u> as outlined below. The training <u>course</u> <u>program</u> shall include lectures,
35	demonstrations, course training program review, examination, and at least 14 hours of hands
36	on training which allows supervisors the experience of performing actual tasks associated
37	with asbestos abatement. The <u>accredited asbestos</u> supervisor's <u>supervisor</u> training <del>course</del>
38	<u>program</u> shall address the following topics:
39	
40	1. The role of the supervisor in the asbestos abatement process.
41 42	2. The physical characteristics of asbestos and asbestos[-]containing materials.
43	2. The physical characteristics of aspestos and aspestos[-]containing materials.
43 44	a. Identification of asbestos.
45	a. Identification of aspestos.
46	b. Aerodynamic characteristics.
	5.1.22.5 wy

1	
2	c. Typic al uses, physical appearance.
3	
4	d. A review of hazard assessment considerations.
5	
6	e. A summary of abatement control options.
7	2. Detential health effects related to ashestes averagene
8 9	3. Potential health effects related to asbestos exposure.
10	a. The nature of asbestos-related diseases.
11	a. The nature of assessos foliated diseases.
12	b. Routes of exposure, dose-response relationships and the lack of a safe
13	exposure level.
13 14	
15	c. Synergism between cigarette smoking and asbestos exposure.
16	
17	d. Latency period for disease.
18 19	4 Employee personal protective equipment
	4. Employee personal protective equipment.
2.1	a. Classes and characteristics of respirator types.
22	a. Classes and characteristics of respirator types.
20 21 22 23 24 25 26 27	b. Limitations of respirators and their proper selection, inspection, donning,
24	use, maintenance and storage procedures.
25	
26	c. Methods for field testing of the facepiece-to-face seal (positive and negative
	pressure fitting tests).
28	
29	d. Qualitative and quantitative fit testing procedures.
30	a Variability between field and laboratory protection feature
31 32	e. Variability between field and laboratory protection factors.
33	f. Factors that alter respirator fit (e.g., facial hair, dental work, weight loss or
34	gain).
35	
	g. The components of a proper respiratory protection program.
36 37	
38	h. Selection and use of personal protective clothing; use, storage and handling
39	of nondisposable clothing.
40 4.1	
41 12	i. Regulations covering personal protective equipment.
12 13	5. State-of-the-art work practices.
14	5. Sate-of-the-art work practices.
 15	a. Work practices for asbestos abatement activities including descriptions of
16	proper construction and maintenance of barriers and decontamination enclosure systems.

1	
2	b. Positioning of warning signs.
3	
4	c. Electrical and ventilation system lock-out.
5	
6	d. Working techniques for minimizing fiber release, use of wet methods, use
7	of negative pressure ventilation equipment, and use of high efficiency particulate air (HEPA)
8	vacuums.
9	
10	e. Clean- up and disposal procedures.
11	
12	f. Work practices for removal, encapsulation, encasement, enclosure and
13	repair.
14	
15	g. Emergency procedures for sudden releases.
16	
17	h. Potential exposure situations.
18	
19	i. Transport and disposal procedures.
20	' D
21	j. Recommended and prohibited work practices.
22	ly Discussion of new shotoment related to shuisway and mothedalasies
23 24	k. Discussion of new abatement related techniques and methodologies.
25	6. Personal hygiene.
26	o. Tersonal hygiene.
27	a. Entry and exit procedures for the work area; use of showers; and avoidance
28	of eating, drinking, smoking, and chewing (gum or tobacco) in the work area.
29	of eating, arming, smoking, and one wing (gain of toolees) in the work area.
30	b. Potential exposures, such as family exposure, shall also be included.
31	on reconstruction of restriction and restriction of the restriction of
32	7. Additional safety hazards.
33	·
34	a. Hazards encountered during abatement activities and how to deal with
35	them, including electrical hazards, heat stress, air contaminants other than asbestos, fire and
36	explosion hazards.
37	•
38	b. Scaffold and ladder hazards.
39	
40	c. Slips, trips and falls.
41	
42	d. Confined spaces.
43	
44	8. Medical monitoring. OSHA requirements for a pulmonary function test, chest X-
45	rays and a medical history for each employee.
46	

1	9. Air monitoring.
2 3	a Procedures to determine sinherne concentration of exhectes fibers, including
4	a. Procedures to determine airborne concentration of asbestos fibers, including a description of aggressive sampling, sampling equipment and methods.
5 6	b. Reasons for air monitoring.
7 8 9	c. Types of samples and interpretation of results, specifically from analysis performed by polarized light, phase-contrast, and electron microscopy analyses.
10 11	10. Relevant federal, state, and local regulatory requirements, procedures and
12 13	standards including:
14 15	a. Requirements of TSCA Title II;
16 17	b. 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subparts A (General Provisions) and M (National Emission Standards for Asbestos);
18 19 20	c. OSHA Standards for permissible exposure to airborne concentrations of asbestos fibers and rRespiratory pProtection (29 CFR 1910.134);
	d. OSHA Asbestos Construction Standard (29 CFR 1926.581101);
23 24	e. USEPA Worker Protection Rule, 40 CFR Part 763, Subpart G;
21 22 23 24 25 26 27	f. Requirements for Asbestos-Containing Waste Materials, 9 VAC 20-80-640; and
28 29	g. 49 CFR Part 172, Subpart H, Department of Transportation regulations
30 31	covering packaging, proper marking of shipping containers and shipping papers.
32 33	11. A review of NESHAP Guidance Documents.
34 35	a. Common Questions on the Asbestos NESHAP.
36 37	b. Asbestos NESHAP: Regulated Asbestos Containing Materials Guidance (EPA 340/1-90-018).
38 39 40	c. Asbestos NESHAP: Adequately Wet Guidance (EPA 340/1-90-019).
41 42	d. Reporting and Record Keeping Requirements for Waste Disposal: A Field Guide (EPA 340/1-90-016).
13 14	12. Respiratory protection programs and medical surveillance programs.
45 46	13. Insurance and liability issues.

1	
2	a. Contractor issues, worker's compensation coverage, and exclusions.
3	
4	b. Third-party liabilities and defenses.
5 6	c. Insurance coverage and exclusions.
7	
8	14. Record keeping for asbestos abatement projects:
9	
10	a. Records required by federal, state, and local regulations.
11	h Dagarda magaman dad fan lagal and ingunan a munaga
12	b. Records recommended for legal and insurance purposes.
13	15. Supervisory techniques for ashestes shotement estivities. Supervisory practices to
14 15	15. Supervisory techniques for asbestos abatement activities. Supervisory practices to enforce and reinforce the required work practices and to discourage unsafe work practices.
16	
17	16. Contract specifications. Discussions of key elements that are included in contract
18	specifications.
19	
20	17. Course <u>Training program</u> review. A review of key aspects of the <u>accredited</u>
21	asbestos training course program.
22 23 24	10 WAC 15 20 750 Franciscotic and about a short and a short and a short and a short a
23 24	18 VAC 15-20-750. Examinations: asbestos abatement supervisors.
24 25	The completion of an annuous decomplited ashestes initial tusining account management
25 26	Upon completion of an approved <u>accredited asbestos</u> initial training <del>course</del> <u>program</u> ,
26 27	a closed_book examination will be administered. Demonstration testing will also be
27	permitted as part of the examination. Each examination shall cover the topics included in the
28	training course program. Persons who pass the examination and fulfill the course training
29	program requirements will receive a Certificate of Completion as specified in 18 VAC 15
30	20-490 this chapter. The following are the requirements for an examination:
31	
32	1. One hundred multiple choice questions; and
33	2 D
34	2. Passing score: 70% correct.
35	40 JUL G 45 00 550 P 6 1 1 1 1
36	18 VAC 15-20-760. Refresher training course program.
37	
38	A. Accredited asbestos Refresher refresher courses training programs shall be one day
39	(eight hours) for asbestos abatement supervisors. The course training program shall review
40	federal and state regulations, discuss changes to the regulations, if applicable, and
41	developments in state-of-the-art procedures. A review of the following topics from the initial
42	eourse accredited asbestos training program shall be included in the asbestos supervisor
43	refresher <del>course</del> training program:
44	
45	1. Potential health effects related to asbestos exposure;

1	2. Employee personal protective equipment; including medical monitoring and
2 3	respiratory protection program;
3 4	2. State of the art work practices (with amphasis on work practices for removal
5	3. State-of-the-art work practices (with emphasis on work practices for removal,
	encapsulation, enclosure and repair and proper working techniques for minimizing fiber
6	release, use of wet methods, use of negative pressure ventilation equipment and the use of
7	high efficiency particulate air (HEPA) vacuums);
8	4 4 11% 1 6 4 1 1 1 1 1 1 2 2
9	4. Additional safety hazards and medical monitoring;
10	5 D ' CA A I A NEGLIAD OGLIA I DOT
11	5. Review of the Asbestos NESHAP, OSHA and DOT requirements; and
12	
13	6. Review of Virginia regulations concerning asbestos licensing, removal and
14	disposal.
15	
16	B. A written closed_book examination shall be included in the refresher course
17	<u>training program</u> . The examination will consist of no fewer than 50 questions. The passing
18	score will be 70% correct. Persons who pass the refresher course training program
19	examination will receive a Certificate of Completion. The certificate shall conform to 18
20	VAC 15-20-490 the requirements of this chapter.
21	
22	18 VAC 15-20-770. Inspector training.
23	
24	A. Asbestos inspectors shall complete a three-day (24 hours) training course
25	[accredited asbestos training] program as outlined below. The course training program shall
26	include lectures, demonstrations, four hours of hands-on training, eourse training program
27	review and a written examination. The <u>accredited asbestos</u> inspector training <del>course</del> <u>program</u>
28	shall address the following topics:
29	
30	1. Course Training program overview.
31	
32	a. The role of the inspector in the asbestos abatement industry.
33	
34	b. A discussion of inspection requirements and criteria for AHERA, NESHAP
35	and state agencies.
36	
37	2. Background information on asbestos.
38	
39	a. Identification of asbestos, and examples and discussion of the uses and
40	locations of asbestos in buildings.
41	
42	b. Physical appearance of asbestos.
43	
44	3. Potential health effects related to asbestos exposure.
45	·
46	a. The nature of asbestos-related diseases.

1	
2	b. Routes of exposure, dose-response relationships and the lack of a safe
3	exposure level.
4	exposure level.
5	c. The synergism between cigarette smoking and asbestos exposure.
6 7	d. I stancy paried for ashestes, related discusses, a discussion of the relationship
	d. Latency period for asbestos-related diseases, a discussion of the relationship
8	of asbestos exposure to asbestosis, lung cancer, mesothelioma and cancer of other organs.
9 10	4. Functions/qualifications for inspectors.
11	
12	a. Discussions of prior experience and qualifications for inspectors and
13	management planners.
14	
15	b. Discussions of the functions of an accredited inspector as compared to
16	those of an accredited management planner.
17	
18	c. Discussion of the inspection process including inventory of ACM and
19	physical assessment.
20	prijoteat abbeddinena
	5. Legal liabilities and defenses.
21 22	3. Legar natimates and defenses.
23	a. Responsibilities of the inspector, a discussion of comprehensive general
23 24	•
24	liability policies, claims made and occurrence policies, environment and pollution liability
25 26	policy clauses; state liability insurance requirements.
26 27	
27	b. Bonding and relationship of insurance availability to bond availability.
28	
29	6. Understanding building systems.
30	
31	a. The relationship between building systems, including: an overview of
32	common building physical plan layout; heat, ventilation and air conditioning (HVAC) system
33	types; physical organization; and where asbestos is found on HVAC components.
34	
35	b. Building mechanical systems, their types and organization and where to
36	look for asbestos on such systems.
37	, and the second se
38	c. Inspecting electrical systems, including appropriate safety precautions.
39	or inspecting electrical systems, metasing appropriate surety procured
40	d. Reading building plans and as-built drawings.
41	d. Reading building plans and as-built drawings.
42	7. Public/employee/building occupant relations.
43	7. I done, employee, building occupant relations.
	a Notification of ampleyees arganizations about the inspection
44 45	a. Notification of employee organizations about the inspection.
45 46	h Clara ta manu huilding a agus anta
46	b. Signs to warn building occupants.

1		
2		c. Tactics in dealing with occupants and the press.
3		
4		d. Scheduling inspections to minimize disruptions.
5 6		e. Education of building occupants about actions being taken.
7		e. Education of building occupants about actions being taken.
8	8. Prei	nspection planning and review of previous inspection records.
9		
10		a. Scheduling the inspection and obtaining access.
11		h Duilding regard reviews identification of muchable homogeneous areas
12 13	from building	b. Building record review; identification of probable homogeneous areas
14	mom bunding	plans or as-built drawings.
15		c. Consultation with maintenance or building personnel.
15 16		
17		d. Review of previous inspection, sampling, and abatement records of a
18	building.	
19		
20		e. The role of the inspector in exclusions for previously performed
21	inspections.	
21 22 23 24 25 26 27	0 Inco	pection for friable and nonfriable asbestos containing material (ACM) and
23 24	-	the condition of friable ACM.
25	ussessifient of	the condition of made revi.
26		a. Procedures to follow in conducting visual inspections for friable and
27	nonfriable AC	
28		
29		b. Types of building materials that may contain asbestos.
30		
31 32		c. Touching materials to determine friability.
		1 Once action of all access and their importance in INVAC accesses
33 34		d. Open return air plenums and their importance in HVAC systems.
35		e. Assessing damage, significant damage, potential damage, and potential
36	significant dar	
37	~-8	6
38		f. Amount of suspected ACM, both in total quantity and as a percentage of the
39	total area.	
40		
41		g. Type of damage.
42 42		h Aggasibility
13 14		h. Accessibility.
<del>14</del> 15		i. Material's potential for disturbance.
<del>1</del> 5		i. Material b potential for distarbance.

1	j. Known or suspected causes of damage or significant damage, and
2	deterioration as assessment factors.
3	
4	10. Bulk sampling/documentation of asbestos in schools.
5	
6	a. Detailed discussion of the "Simplified Sampling Scheme for Friable
7	Surfacing Materials" (USEPA 560/5-85-030a October 1985).
8	
9	b. Techniques to ensure sampling in a randomly distributed manner for other
10	than friable surfacing materials.
11	
12	c. Techniques for bulk sampling.
12 13 14	
14	d. Sampling equipment the inspector should use.
15	
16	e. Patching or repair of damage done in sampling; an inspector's repair kit.
17	
18	f. Discussion of polarized light microscopy.
19	Chassing an accordited laboratory to analyze bully someles
20	g. Choosing an accredited laboratory to analyze bulk samples.
21	h. Quality control and quality assurance procedures.
22	n. Quanty control and quanty assurance procedures.
21 22 23 24 25 26 27 28	11. Inspector respiratory protection and equipment.
25	11. Inspector respiratory protection and equipment.
26	a. Classes and characteristics of respirator types.
27	a. Classes and characteristics of respirator types.
28	b. Limitations of respirators.
29	or zimiliono or respiratoro.
30	c. Selection, inspection, donning, use, maintenance, and storage procedures
31	for respirators.
32	1
33	d. Methods for field testing of the facepiece-to-face seal (positive and negative
34	pressure fitting tests); qualitative and quantitative fit testing procedures.
35	
36	e. Variability between field and laboratory protection factors.
37	
36 37 38	f. Factors that alter respirator fit (e.g., facial hair, dental work, weight loss or
39	gain).
40	
41	g. The components of a proper respiratory protection program.
12	
41 42 43 44 45	h. Selection and use of personal protective clothing.
14	
<del>1</del> 5	i. Use, storage, and handling of nondisposable clothing.
<del>1</del> 6	

1 2	12. Record keeping and writing the inspection report.
3	a. Labeling of samples and keying sample identification to sampling location.
4 5	b. Recommendations on sample labeling.
6	
7 8	c. Detailing of ACM inventory.
9	d. Photographs of selected sampling areas and examples of ACM condition.
10 11 12	e. Information required for inclusion in the management plan by TSCA Title II section 203 (i)(1).
13 14	13. Regulatory review.
15	13. Regulatory Teview.
16 17	a. USEPA EPA Worker Protection Rule found at 40 CFR Part 763, Subpart G
18	b. TSCA Title II.
19 20	c. OSHA Asbestos Construction Standard (29 CFR 1926.581101).
21 22	d. OSHA respirator requirements (29 CFR 1910.134).
23 24	e. The friable ACM in Schools Rule found at 40 CFR Part 763, Subpart F.
25 26	f. Applicable state and local regulations.
27 28	g. Differences in federal and state requirements where they apply and the
29	effects, if any, on public and nonpublic schools, and commercial and public buildings.
30 31	14. Field trip.
32 33	a. [Including a field Field] exercise with a walk-through inspection.
<ul><li>34</li><li>35</li><li>36</li></ul>	b. On-site discussion of information gathering and determination of sampling locations.
37 38 39	c. On-site practice in physical assessment.
40	d. Classroom discussion of field exercise.
41	
42	15. Course <u>Training program</u> review. A review of key aspects of the <u>accredited</u>
43	<u>asbestos</u> training <u>course</u> <u>program</u> .
44 45	18 VAC 15-20-780. Examinations: <u>Aasbestos inspectors.</u>
46	

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1 2 3 4 5	Upon completion of an approved accredited asbestos inspector training course program, a closed-book examination will be administered. Each examination shall cover the topics included in the inspector training course program. Persons who pass the examination and fulfill course training program requirements will receive a Certificate of Completion as specified in 18 VAC 15-20-490 this chapter. The following are the requirements for
6	examination:
7 8 9	1. One hundred multiple choice questions; and
10 11	2. Passing score: 70% correct.
12 13	18 VAC 15-20-790. Refresher training course program.
14 15 16 17	A. <u>Accredited asbestos Refresher refresher [courses] training programs</u> shall be <u>1/2 one-half</u> day (four hours) for inspectors. The <u>course training program</u> shall review federal and state regulations, discuss changes to the regulations, if applicable, and review developments in state-of-the-art procedures. A review of the following topics from the initial
18 19	course accredited asbestos training program shall be included in the accredited asbestos inspector refresher course training program:
20 21 22	1. Inspection for friable and nonfriable asbestos[-]containing material (ACM) and assessment of the condition of friable ACM;
<ul><li>23</li><li>24</li><li>25</li></ul>	2. Bulk sampling/documentation of asbestos in schools; and
25 26 27	3. Reinspection and reassessment techniques.
28 29	B. The use of exercises to encourage interactive learning and participation is suggested. These exercises may take the form of reviewing building plans, inspection

B. The use of exercises to encourage interactive learning and participation is suggested. These exercises may take the form of reviewing building plans, inspection reports, a video or photo walk-through of an area to be inspected and written interviews with maintenance personnel to draw upon items covered in the initial <u>accredited asbestos</u> inspector course <u>training program</u>.

C. A written closed\_book examination will be administered covering the topics included in the asbestos inspector refresher training course program. The examination will consist of no fewer than 50 questions. The passing score will be 70% correct. Persons who pass the asbestos inspector refresher training course program examination will receive a Certificate of Completion as specified in 18 VAC 15 20 490 this chapter.

18 VAC 15-20-800. Asbestos management planner training.

Asbestos management planners seeking accreditation must shall complete an accredited asbestos inspector training course program as provided in 18 VAC 15-20-770 and a two-day [accredited asbestos] management planner training course program. The two-day (16 hours) accredited asbestos training program shall include lectures, demonstrations, course

1	<u>program</u> review, and a written examination. The <u>accredited asbestos</u> management planner
2	training course program shall address the following topics:
3	
4	1. Course Training program overview.
5	
6	a. The role of the management planner.
7	
8	b. Operations and maintenance programs.
9	o. Operations and mannerance programs.
10	c. Setting work priorities; protection of building occupants.
11	c. Setting work priorities, protection of building occupants.
12	2 Evaluation/interpretation of curvey results
	2. Evaluation/interpretation of survey results.
13	
14	a. Review of TSCA Title II requirements for inspection and management
15	plans as given in section 203(i)(1) of TSCA Title II.
16	
17	b. Summarized field data and laboratory results; comparison between field
18	inspector's data sheet with laboratory results and site survey.
19	
20	3. Hazard assessment.
21	
22	a. Amplification of the difference between physical assessment and hazard
23	assessment.
24	
25	b. The role of the management planner in hazard assessment.
26	
27	c. Explanation of significant damage, damage, potential damage, and potential
28	significant damage and use of a description (or decision tree) code for assessment of ACM;
29	assessment of friable ACM.
30	assessment of maste fremi
31	d. Relationship of accessibility, vibration sources, use of adjoining space, air
32	plenums and other factors to hazard assessment.
33	picitums and other factors to nazard assessment.
34	4. Legal implications.
	4. Legal implications.
35	I inhilitan in surrous a inques amonific to an among a montal alamans
36	a. Liability; insurance issues specific to management planners.
37	
38	b. Liabilities associated with interim control measures, in-house maintenance,
39	repair, and removal.
40	
41	c. Use of results from previous inspections.
42	
43	5. Evaluation and selection of control options.
44	
45	a. Overview of encapsulation, enclosure, interim operations and maintenance
46	and removal; advantages and disadvantages of each method.

1	
2	b. Response actions described via a decision tree or other appropriate method:
3	work practices for each response action.
4	
5	c. Staging and prioritizing of work in both vacant and occupied buildings.
6	
7	d. The need for containment barriers and decontamination in response actions
8	
9	6. Role of other professionals.
10	
11	a. Use of industrial hygienists, engineers and architects in developing
12	technical specifications for response actions.
13	
14	b. Any requirements that may exist for an architect to sign-off on plans.
15	
16	c. Team approach to designing of high-quality job specifications.
17	
18	7. Developing an operations and maintenance (O&M) plan.
19	
20	a. Purpose of the plan.
21	
22	b. Discussion of applicable USEPA guidance documents.
23	
24	c. What actions should be taken by custodial staff: proper cleaning
25	procedures; steam cleaning and high efficiency particulate aerosol air (HEPA) vacuuming.
26	1 D 1 ' 1' 4 1 CACM
27	d. Reducing disturbance of ACM.
28	
29	e. Scheduling O&M for off-hours; rescheduling or canceling renovation in
30	areas with ACM.
31	
32	f. Boiler room maintenance.
33	- Discount of ACM
34	g. Disposal of ACM.
35	1. In house and describe ACM, building and according a second and a single
36	h. In-house procedures for ACM: bridging and penetrating encapsulants, pipe
37	fittings, metal sleeves, poly vinyl chloride (PVC), canvas, and wet wraps; muslin with straps
38	fiber mesh cloth; mineral wool, and insulating cement.
39	
40	i. Discussion of employee protection programs and staff training.
41	: Case study in developing on O.P.M. plan (development implementation
42	j. Case study in developing an O&M plan (development, implementation
43	process, and problems that have been experienced).
44	9. Dogulatowy wayiayy
45	8. Regulatory review.
46	

	a. Focusing on the OSHA Asbestos Construction Standard found in 29 CFR
<del>19</del> 2	26.58.
	b. The National Emission Standard for Hazardous Air Pollutants (NESHAPS)
	and at 40 CFR 61, Subparts A (General Provisions) and M (National Emission Standard Asbestos).
	c. USEPA Worker Protection Rule found in 40 CFR 763, Subpart G; TSCA
Tit	l <del>e II.</del>
	d. Applicable state regulations.
	9.8. Record keeping for the management planner.
	a. Use of field inspector's data sheet along with laboratory results.
	b. On-going record keeping as a means to track asbestos disturbance.
	c. Procedures for record keeping.
	10.9. Assembling and submitting the management plan.
	a. Plan requirements in TSCA Title II section 203(I)(1).
	b. The management plan as a planning tool.
	11.10. Financing abatement actions.
	a. Economic analysis and cost estimates.
	b. Development of cost estimates.
	c. Present costs of abatement versus future operations and maintenance costs.
	d. Asbestos School Hazard Abatement Act grants and loans.
	12.11. A review of key aspects of the <u>accredited asbestos</u> training <del>course</del> <u>program</u> .
18	VAC 15-20-810. Examinations: <u>Aasbestos management planners.</u>
cov	Upon completion of an approved accredited asbestos management planner training arse program, a closed-book examination will be administered. Each examination shall wer the topics included in the management planner training course program. Persons who as the examination and fulfill course training program requirements will receive a
Ce	rtificate of Completion as specified in 18 VAC 15-20-490 this chapter. The following are requirements for examination:

	]
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	1
20 21 22 23 24 25 26 27 28 29 30 31	s I I I i
31 32 33 34 35 36	i T

38 39

40 41

42

43

44

45

46

- 1. One hundred multiple choice questions; and
- 2. Passing score: 70% correct.

18 VAC 15-20-820. Refresher training course program.

A. Management planners shall attend [both the management planner refresher training program of one-half day (four hours) and] the inspector refresher course training program of 1/2 one-half day (four hours) [plus an additional 1/2 one-half day (four hours) on management planning]. The course [management planner refresher] training program shall review federal and state regulations, discuss changes, if applicable, and review developments in state-of-the-art procedures. A review of the following topics from the initial accredited asbestos management planner training course program shall be included in the asbestos management planner refresher training course program:

- 1. Evaluation and interpretation of survey results;
- 2. Hazard assessment;
- 3. Evaluation and selection of control options; and
- 4. Developing an Operations and Maintenance plan.
- B. The use of exercises to encourage interactive learning and participation is suggested. These exercises may take the form of reviewing inspection reports, a video or photo walk-through of a building to have a management plan prepared for and a review of reinspection or abatement reports to update or prepare a management plan to draw upon items covered in the <u>accredited asbestos</u> inspector <u>course training program</u> and the initial <u>accredited asbestos</u> management planner <u>course training program</u>.

C. A written closed\_book examination will be administered covering the topics included in the asbestos inspector management planner refresher course training program. The examination will consist of no fewer than 50 questions. The passing score will be 70% correct. Persons who pass the asbestos management planner refresher training course program examination will receive a Certificate of Completion as specified in 18 VAC 15-20-490 this chapter.

18 VAC 15-20-830. Asbestos project designer training.

Asbestos project designers shall complete a three-day (24 hours) [accredited asbestos project designer] training eourse program as outlined below. The three-day asbestos project designer training program shall include lectures, demonstrations, a field trip, course training program review, and a written examination. The three-day asbestos project designer training course program shall address the following topics:

1	1. Course <u>Training program</u> overview.
2 3	a. The role of the project designer in the asbestos abatement industry.
4	u. The fole of the project designer in the assessos assuched industry.
5	b. Discussion of what a project design is.
6 7	2. Background information on asbestos.
8	
9	a. Identification of asbestos; examples and discussion of the uses and locations
10	of asbestos in buildings.
11	h Dhusical amaganan of asheatas
12	b. Physical appearance of asbestos.
13 14	3. Potential health effects related to asbestos exposure.
15	
16	a. Nature of asbestos-related diseases.
17	
18	b. Routes of exposure, dose-response relationships and the lack of a safe
19	exposure level.
20	
21 22 23 24	c. The synergistic effect between cigarette smoking and asbestos exposure.
22	
23	d. The latency period of asbestos-related diseases; a discussion of the
	relationship between asbestos exposure and asbestosis, lung cancer, mesothelioma, and
25 26	cancer of other organs.
25 26 27	1. Overview of absternant construction projects
	4. Overview of abatement construction projects.
28	Aladamanda a madian afa manadian maiad
29	a. Abatement as a portion of a renovation project.
30	h OCHA maninamenta for natification of other contractors on a multi-
31 32	b. OSHA requirements for notification of other contractors on a multi-
	employer site (29 CFR 1926. <del>58</del> <u>1101</u> ).
33 34	5. Safety system design specifications.
	3. Safety system design specifications.
35 36	a. Construction and maintenance of containment barriers and decontamination
30 37	enclosure systems.
38	enciosure systems.
39	b. Positioning of warning signs.
40	o. I ositioning of warming signs.
<del>4</del> 0 41	c. Electrical and ventilation system lock-out.
42	c. Electrical and ventulation system lock-out.
<del>1</del> 2	d. Proper working techniques for minimizing fiber release.
<del>4</del> 3	d. Proper working techniques for minimizing from release.
45	e. Entry and exit procedures for the work area, use of wet methods, use of
46	negative pressure exhaust ventilation equipment, use of high efficiency particulate aerosol air
_	T remains the second of t

1 2	(HEPA) vacuums, proper clean-up and disposal of asbestos, work practices as they apply to encapsulation, enclosure, and repair, use of glove bags and a demonstration of glove bag use.
3	encupsulation, enclosure, and repair, use of glove sugs and a demonstration of glove sug use.
4	6. Field trip.
5 6 7	a. Visit an proposed abatement site or other suitable building site, including on-site discussions of abatement design.
8 9	b. Building walk-through inspection, and discussion following the walk-
10	through.
11 12	7. Employee personal protective equipment.
13	
14 15	a. Classes and characteristics of respirator types.
16 17	b. Limitations of respirators, proper selection, inspection, donning, use, maintenance, and storage procedures.
18	
19 20	c. Methods for field testing of the face to facepiece facepiece to-face seal (positive and negative pressure fitting tests).
21	
22 23	d. Qualitative and quantitative fit testing procedures.
24 25	e. Variability between field and laboratory protection factors, factors that alter respirator fit (e.g., facial hair, dental work and weight loss or gain).
26 27 28	f. Components of a proper respiratory protection program.
29 30	g. Selection and use of personal protective clothing, use, storage and handling of nondisposable clothing.
31	
32 33	h. Regulations covering personal protective equipment.
34 35	8. Additional safety hazards.
36 37	a. Hazards encountered during abatement activities and how to deal with them.
38 39 40	b. Electrical hazards, heat stress, air contaminants other than asbestos, fire and explosion hazards.
41 42	9. Fiber aerodynamics and control.
43 44 45	a. Aerodynamic characteristics of asbestos fibers.
45 46	b. Importance of proper containment barriers.

1	
2	c. Settling time for asbestos fibers.
3	d Wat mathods in abstament
4 5	d. Wet methods in abatement.
6	e. Aggressive air monitoring following abatement.
7	c. riggressive an monitoring ronowing adactions.
8	f. Aggressive air movement and negative pressure exhaust ventilation as a
9	clean-up method.
10	
11	10. Designing abatement solutions.
12 12	a Discussions of nameural analogues and an consulation matheds
11 12 13 14 15	a. Discussions of removal, enclosure, and encapsulation methods.
15	b. Asbestos waste disposal.
16	o. Hisoestos waste disposai.
17	11. Budgeting/cost estimation.
18	
19	a. Development of cost estimates.
20	
21	b. Present costs of abatement versus future operations and maintenance costs.
22	c. Setting priorities for abatement jobs to reduce cost.
24	c. Betting priorities for abatement jobs to reduce cost.
20 21 22 23 24 25 26 27 28 29 30 31	12. Writing abatement specifications.
26	
27	a. Means and methods specifications versus performance specifications.
28	
29 20	b. Design of abatement in occupied buildings.
3U 21	c. Modification of guide specifications to a particular building.
32	c. Modification of guide specifications to a particular building.
33	d. Worker and building occupant health/medical considerations.
34	
35	e. Replacement of ACM with non-asbestos substitutes.
35 36 37	
37	f. Clearance of work area after abatement.
38 39	a Air monitoring for alcoronge
10	g. Air monitoring for clearance.
41	13. Preparing abatement drawings.
12	10.114pming weweniten didn'tinger
43	a. Use of as-built drawings.
14	
15	b. Use of inspection photographs and on-site reports.
<del>1</del> 6	

1 2	c. Particular problems in abatement drawings.
3	14. Contract preparation and administration.
4 5	15. Legal/liabilities/defenses.
6 7 8	a. Insurance considerations, bonding, hold harmless clauses, and use of abatement contractor's liability insurance.
9 10	b. Claims-made versus occurrence policies.
11 12	16. Replacement of asbestos with asbestos-free substitutes.
13 14	17. Role of other consultants.
15 16 17	a. Development of technical specification sections by industrial hygienists or engineers.
18 19 20	b. The multi-disciplinary team approach to abatement design.
21 22	c. The use and responsibilities of a project monitor on the abatement site.
23 24	18. Occupied buildings.
25 26	a. Special design procedures required in occupied buildings.
27	b. Education of occupants.
28 29	c. Extra monitoring recommendations.
30 31 32	d. Staging of work to minimize occupant exposure.
33 34	e. Scheduling of renovation to minimize exposure.
35 36 37	19. Relevant federal, state and local regulatory requirements. Procedures and standards including:
38 39	a. Requirements of TSCA Title II;
40 41	b. 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subparts A (General Provisions) and M (National Emission Standard for Asbestos);
42 43 44	c. OSHA standards for permissible exposure to airborne concentrations of asbestos fibers and respiratory protection (29 CFR 1910.134);
45 46	d. USEPA Worker Protection Rule, found at 40 CFR Part 763, Subpart G;

1 2	e. OSHA Asbestos Construction Standard found at 29 CFR 1926.581101; and
3	c. OSTIT Assestos Constituction Standard Tourid at 27 CTR 1720.501101, and
4 5	f. OSHA Hazard Communication Standard found in 29 CFR 1926.59.
6 7	20. A review of key aspects of the <u>accredited asbestos</u> training <u>course program</u> .
8 9	18 VAC 15-20-840. Examinations: <u>Aasbestos project designers.</u>
10	Upon completion of an approved accredited asbestos project designer training course
11	program, a closed-book examination will be administered. Each examination shall cover the
12	topics included in the asbestos project designer training course program. Persons who pass
13	the examination and fulfill course training program requirements will receive a Certificate of
14	Completion as specified in 18 VAC 15-20-490 this chapter. The following are the
15	requirements for examination:
16	requirements for examination.
17	1. One hundred multiple choice questions; and
18	The manufacture and the questions, and
19	2. Passing score: 70% correct.
20	_, _ <i></i>
21	18 VAC 15-20-850. Refresher training course program.
22	
23	A. The accredited asbestos Project project designer refresher training program shall
24	be one day (eight hours) in length. The course training program shall review federal and
25	state regulations, discuss changes to the regulations, if applicable, and review developments
26	in state-of-the-art procedures. A review of the following topics from the initial project
27	designer training course program shall be included in the accredited asbestos project designer
28	refresher training course program:
29 30	1. Safety system design specifications;
31	
32	2. Writing abatement specifications;
33	
34	3. Employee personal protective equipment; and
35	
36	4. Budgeting and cost estimation.
37	
38	B. The use of exercises to encourage interactive learning and participation is
39	suggested. These exercises may take the form of reviewing inspection reports, a video or
40	photo walk-through of a building to prepare a response action, a review of a mock-up cost
41	list of equipment and materials utilized for various response actions to be designed within
42	certain budget constraints and recommending a response action based upon the cost, budget
43	and material condition constraints.
44	
45	C. A written closed_book examination will be administered covering the topics
46	included in the asbestos project designer refresher courses training program. The

examination will consist of no fewer than 50 questions. The passing score will be 70% 1 2 correct. Persons who pass the asbestos project designer refresher training course program 3 will receive a Certificate of Completion as specified in 18 VAC 15-20-490 this chapter. 4 5 18 VAC 15-20-860. Project monitor training. 6 7 A. Asbestos abatement project monitors shall complete a five-day (40 hours) 8 [accredited asbestos] training course program as outlined below. All training courses 9 programs shall be approved by the department board. The accredited asbestos training 10 course program shall include lectures, demonstrations, course training program review, examination, and at least six hours of hands-on training which allows project monitors the 11 12 experience of performing actual tasks associated with asbestos project monitoring. Those 13 applicants who hold current supervisor[s] or project designer[s] certification accreditation 14 need not complete the entire 40-hour accredited asbestos training course program, but may complete the 16-hour portion of the course training program described in subdivision B1 of 15 16 this section and take the examination. The comprehensive 40-hour accredited asbestos 17 project monitor training course program shall address the following topics: 18 19 1. The physical characteristics of asbestos and asbestos[-]containing materials. 20 21 a. Identification of asbestos. 22 23 b. Typical uses and locations in buildings, physical appearance. 24 25 c. A review of hazard assessment control options. 26 27 d. A summary of abatement control options. 28 29 2. Potential health effects related to asbestos exposure. 30 31 a. The nature of asbestos-related diseases. 32 33 b. Routes of exposure, dose-response relationships and the lack of a safe 34 exposure level. 35 36 c. Synergism between cigarette smoking and asbestos exposure. 37 38 d. Latency period for disease; a discussion of the relationship between 39 asbestos exposure and asbestosis, lung cancer, mesothelioma, and cancer of the other organs. 40 41 3. Employee personal protective equipment. 42 43 a. Classes and characteristics of respirator types.

b. Limitations of respirators and their proper selection, inspection, donning,

use, maintenance and storage procedures.

44 45

46

1	
2	c. Methods for field testing of the facepiece-to-face seal (positive and negative
3	pressure fitting tests).
4	
5	d. Qualitative and quantitative fit testing procedures.
6	
7	e. Variability between field and laboratory protection factors.
8	
9	f. Factors that alter respirator fit (e.g., facial hair, dental work, weight loss or
10	gain).
11	
12	g. The components of a proper respiratory protection program.
13	
14	h. Selection and uses of personal protective clothing; use, storage, and
15	handling of nondisposable clothing.
16	
17	i. Regulations covering personal protection equipment.
18	
19	4. State of the art work practices.
20	
21	a. Work practices for asbestos abatement activities including description of
22	proper construction and maintenance barriers and decontamination enclosure systems.
23	
24	b. Positioning of warning signs.
25	
26	c. Electrical and ventilation system lock-out.
27	
28	d. Working techniques for minimizing fiber release, use of wet methods, use
29	of negative pressure ventilation equipment, use of high efficiency particulate air (HEPA)
30	vacuums. Entry and exit procedures for work area.
31	
32	e. Clean-up and disposal procedures.
33	
34	f. Work practices for removal, encapsulation, enclosure and repair. Use of
35	glove bags and a demonstration of glove bag use.
36	
37	g. Emergency procedures for sudden release.
38	
39	h. Potential exposure situations.
40	
41	i. Transport and disposal procedures.
42	
43	j. Recommended and prohibited work practices.
44	
45	k. Discussion of new abatement related techniques and methodologies.
46	

1	5. Personal hygiene.
2	
3	a. Entry and exit procedures for the work area; use of showers; avoidance of
4	eating, drinking, smoking, and chewing (gum or tobacco) in the work area.
5	
6	b. Potential exposures, such as family exposure, shall also be included.
7	
8	6. Additional safety hazards as covered in OSHA CFR Parts 1926 and 1910 to
9	include:
10	
11	a. Hazards encountered during the abatement activities and how to deal with
12	them, including electrical hazards, heat stress, air contaminants other than asbestos, fire, and
13	explosion hazards;
14	
15	b. Scaffold and ladder hazards;
16	
17	c. Slips, trips and falls; and
18	
19	d. Confined spaces.
20	
21 22	7. Medical monitoring. OSHA requirements for a pulmonary function test, chest x-
22	rays and a medical history for each employee.
23	
24	8. Respiratory protection programs and medical surveillance programs.
23 24 25 26	
26	9. Insurance and liability issues:
27	
28	a. Contractor issues, worker's compensation coverage, and exclusions.
29	
30	b. Third-party liabilities and defenses.
31 32	a Insurance coverage and evaluations
32 33	c. Insurance coverage and exclusions.
33 34	10. Relevant federal, state and local regulatory requirements, procedures and
3 <del>4</del> 35	standards including:
36	standards including.
37	a. Requirements of TSCA Title II;
38	a. Requirements of 1501 Title 11,
39	b. 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants,
40	Subparts A (General Provisions) and M (National Emission Standards for Asbestos);
41	Subparts 11 (General Frovisions) and ivi (National Emission Standards for 1150estos),
42	c. OSHA Standards for permissible exposure to airborne concentrations of
43	asbestos fibers and respiratory protection (29 CFR 1910.134);
44	
45	d. OSHA Asbestos Construction Standard (29 CFR 1926.581101);
46	, ( · · · · · · · · · · · · · · · · · ·

1 2	e. OSHA Hazard Communication Standard (29 CFR 1926.59);
3	f. USEPA Worker Protection Rule, 40 CFR Part 763, Subpart G;
4	
5 6	g. Requirements of Asbestos-Containing Waste Materials, 9 VAC 20-80-640;
7	h. DOT 49 CFR Parts 171 and 172 Subpart H; and
8 9	i. Virginia asbestos licensing regulations.
10	
11 12	B. The material outlined below encompasses the 16-hour <u>accredited asbestos</u> project monitor training <u>course</u> program. Those applicants who are currently accredited as
13	supervisors or project designers need only to complete this the 16-hour project monitor
14	training program course and examination. The comprehensive 40-hour project monitor
15 16	training program includes the preceding topics and continues below.
17	1. Air monitoring.
18	
19	a. NIOSH Asbestos Monitoring Procedure. Procedures to determine airborne
20	concentration of asbestos fibers, including a description of aggressive sampling, sampling
21	equipment and methods.
22	1.1
23	(1) Explanation of analytical methods, measures of precision, control of
24	errors, collecting measurement samples, fiber counts, sampling and calibration equipment,
25	statistics, quality control techniques in sampling.
26	
27	(2) Review of OSHA Asbestos Regulations 29 CFR Part 1926, Subpart F, 1-6.
28	
29	b. Sampling strategy.
30	
31	(1) Why samples are taken.
32	(1) will samples are taken.
33	(2) Sampling inside and outside of containment area.
	(2) Sampling histoe and outside of containment area.
34	(2) Pl C
35	(3) Placement of pumps.
36	
37	c. Reasons for air monitoring.
38	
39	d. Types of samples and interpretation of results, specifically from analysis
40	performed by polarized light, phase-contrast, and electron microscopy analyses.
41	
42	e. Final clearance.
43	
44	2. Overview of supervisory techniques for asbestos abatement activities to include the
45	information covered in the accredited asbestos supervisor's supervisor training course
46	program. A review of the required work practices and safety considerations.
TU	programs in review of the required work practices and safety considerations.

2	3. Field Trip.	
3 4 5	a. Visit a proposed abatement site or other suitable building site, including on-site discussions of abatement design.	ıg
<i>5</i>	on-site discussions of abatement design.	
7	b. Building walk-through inspection and discussion following the walk	
8 9	through.	
10 11	4. Fiber aerodynamics and control.	
12 13	a. Aerodynamic characteristics of asbestos fibers.	
14 15	b. Importance of proper containment barriers.	
16 17	c. Settling time for asbestos fibers.	
18 19	d. Wet methods in abatement.	
20	e. Aggressive air monitoring following abatement.	
21 22	f. Aggressive air movement and negative pressure exhaust ventilation as	a
23	clean-up method.	
24 25 26	5. Project specifications. Discussion of key elements that are included in contrac specifications.	t
27 28	a. Means and methods specifications versus performance specifications.	
29 30	b. Considerations for design of abatement in occupied buildings.	
31 32	c. Worker and building occupant health/medical considerations.	
33 34	d. Replacement of ACM with non-asbestos substitutes.	
35 36 37	e. Clearance of work area after abatement.	
37 38 39	f. Use of as-built drawings.	
40	g. Use of inspection photographs and on-site reports.	
41 42	h. Particular problems in abatement drawings.	
43 44 45	6. Conducting inspections.	

2	a. Inspection prior to containment to assure condition of items and proper precleaning.
3 4	b. Inspection of containment prior to commencement of abatement to assure
5	that containment is complete and proper.
6	
7	c. Daily work and containment inspections.
8	d. Final visual inspection and a discussion of the ASTM E1368 method.
10	
11 12	7. Record keeping and documentation.
13	a. Project logs.
14 15	b. Inspection reports.
16	
17	c. Waste shipment record requirements (WSR).
18	d. December of the control of the following states and analysis of
19 20	d. Record keeping required by federal, state or local regulations.
20 21	e. Record keeping required for insurance purposes.
22 23	8. Role of project monitor in relation to:
24	
25	a. Building owner,
21 22 23 24 25 26 27 28 29	b. Building occupants,
28	
29 30	c. Abatement contractor, and
31	d. Other consultants.
32 33	9. Occupied buildings.
34 35	a. Special procedures recommended in occupied buildings.
36 37	b. Extra monitoring recommendations.
38 39	10. A review of NESHAP Guidance Documents.
40 41 –	a. Common Questions on the Asbestos NESHAP.
42 43 –	b. Asbestos NESHAP: Regulated Asbestos Containing Materials Guidance
44 <del>(I</del>	EPA 340/1-90-018).
15 16	c. Asbestos NESHAP: Adequately Wet Guidance (EPA 340/1-90-019).
<del>1</del> 6 –	C. ASDESIOS INESTIAM: Adequately Well Muldance (EMA 340/1-90-019).

1 2	11. A review of key aspects of the <u>accredited asbestos</u> training <u>course program</u> .
3 4	12. Examination.
5 6 7	18 VAC 15-20-870. Examination: [Aa]sbestos project monitors.
8	Upon completion of an approved accredited asbestos project monitor training course
9	program, a closed-book examination will be administered. Each examination shall cover the
10	topics included in the project monitoring training course program. Persons who pass the
11	examination and fulfill course training program requirements will receive a Certificate of
12	Completion as specified in 18 VAC 15-20-490 this chapter. The following are the
13	requirements for examination:
14	
15	1. One hundred multiple choice questions; and
16 17	2 Passing seems 700/ seemest
18	2. Passing score: 70% correct.
19	18 VAC 15-20-880. Refresher training course program.
20	16 VAC 13-20-660. Refresher training eourse program.
21	A. [The aA]ccredited asbestos Project project monitor refresher training program
22	shall be one day (eight hours)[in length]. The course training program shall review federal
23	and state regulations, discuss changes to the regulations, if applicable, and review
24	developments in state-of-the-art procedures. A review of the following topics from the initial
25	accredited asbestos project monitor training course program shall be included in the asbestos
26	project monitor refresher training course program:
27	
28	1. State-of-the-art work practices;
29	
30	2. Occupied buildings;
31	
32	3. Employee personal protective equipment;
33	4 17 1
34	4. Fiber aerodynamics and control; and
35	5 December 1 transing and decommentation
36 37	5. Record keeping and documentation.
38	B. The use of exercises to encourage interactive learning and participation is
39	suggested. These exercises may take the form of reviewing inspection reports, a video or
40	photo walk-through of a building to determine a sampling strategy, a review of a mock-up
41	abatement area to determine that containment is adequate, or review of a mock-up abatement
42	area where a visual inspection may be performed.
43	I Jan Farana
44	C. A written closed_book examination will be administered covering the topics
45	included in the asbestos project monitor refresher courses training program. The
46	examination will consist of no fewer than 50 questions. The passing score will be 70%

1 2 3	correct. Persons who pass the asbestos project monitor refresher training course program examination will receive a Certificate of Completion as specified in 18 VAC 15-20-490 this chapter.
4 5	18 VAC 15-20-890.—RFS training course modules.(Repealed)
6	10 VIIC 13 20 050. It is training course modules.(Repeared)
7 8	Each module shall consist of a minimum of four hours of actual instruction. This training does not replace the training requirements of OSHA in 29 CFR 1926.58.
9	tunning does not replace the training requirements of OSTITY in 25 CTR 1720.50.
10 11	A. Module I Basic training information required for all supervisors and workers.
12	1. Physical characteristics.
13 14	a. Identification of asbestos.
15	
16	b. Aerodynamic characteristics.
17	
18 19	c. Typical uses and physical appearance.
20	2. Health effects related to asbestos exposure.
21 22	a. Nature of asbestos related disease.
23	a. Nature or aspestos related disease.
24	b. Routes of exposure, dose response relationships and the lack of a safe
25	exposure level.
26	
27 28	c. Cigarette smoking and asbestos exposure.
29	d. Latency period for asbestos related diseases.
30	
31 32	e. Need and importance of following all safety instructions.
33	——— 3. Laws and regulations.
34	
35	a. Licensing requirements.
36 37	b. Relevant federal, state, and local regulatory requirements, procedures and
38	standards, including, but not limited to:
39	sundards, including, out not immed to.
40 41	(1) OSHA regulations;
42	(2) EPA/NESHAP regulations; and
43 44	(3) Department of Transportation regulations, (49 CFR 172 Subpart H).
45	
46	4. Personal protection equipment.

	a. Classes and characteristics of respirator types, limitations, selection,
inspection, d	onning, use, maintenance, and storage procedures.
	b. Fit testing procedures.
	c. Components of a respiratory protection program.
	d. Selection and use of personal protection clothing; use, storage, and handling
of nondispos	able clothing, hard hats, safety glasses, and nonslip shoes.
5. Air	r monitoring.
	a. Procedures to determine airborne concentrations of asbestos fibers.
	b. Discussion of how personal air sampling is performed and the reasons for
<del>t.</del>	
6. Per	rsonal hygiene.
	a. Entry and exit procedures for the work area.
the work area	b. Avoidance of eating, drinking, smoking and chewing (gum or tobacco) in
uic work uice	c. Potential exposures, such as family exposure.
B. Fle	oorcovering specialty module.
1. Flo	porcovering materials and adhesives which may contain asbestos.
	a. Floorcovering materials.
	b. Adhesives asbestos containing and non asbestos containing.
	c. Dates of production of asbestos containing resilient floorcoverings.
	d. Alternatives to removal of existing floor and proper methods.
2. Re	commended work practices.
	a. Work techniques for minimizing fiber releases; wetting, steaming, dry ice,
hand tools, I use of mastic	IEPA vacuumed tools, use of sealants, no grinding, no crushing, no breakage,
	b. Instruction as to proper nonfriable techniques for:
	· · · · · · · · · · · · · · · · · · ·

	(1) Removal of tile;
	(2) Removal of sheet goods; and
	(3) Removal of residual adhesives.
sealing of fi	c. Clean up and disposal techniques, construction of leak tight containers, riable ACM edges or wetting of edges, HEPA vacuuming, wet wiping.
	d. Safety practices and hazard prevention during removal of floorcoverings.
slips, trips (	Discussion of hazards posed by wet working conditions, electrical hazards, and falls.
loors, chim	e. Ventilation system lock out, sealing of intake and exhaust vents, windows, neys, and all openings.
	f. Positioning of warning signs, critical barriers and designation of regulated
areas.	
	g. Emergency procedures.
3. C	ourse review.
4. E	xamination.
C. F	Roofing specialty module.
——————————————————————————————————————	lentification of roofing materials which may contain asbestos.
Тур	ical uses and physical appearance of asbestos roofing materials.
2. R	ecommended work practices.
	a. Work techniques for minimizing fiber releases, wet methods, use of HEPA rocedures for removal of asbestos cement products versus built up roof products of prohibited work practices.
	b. Work practices for nonfriable removal—wetting, hand tools, HEPA ools, use of sealants.
	c. Ventilation system lock out, sealing of intake and exhaust vents, windows,

of friable A	<ul> <li>d. Clean up and disposal techniques, construction of leak tight chutes, sealing CM edges or wetting of edges.</li> </ul>
	e. Discussion of additional safety hazards.
	(1) Scaffold and ladder hazards.
	(2) Slips, trips and falls.
	f. Positioning of warning signs, critical barriers and designation of regulated
<del>ireas.</del>	
	g. Emergency procedures.
3. F	Recommended safe work practices for installation of asbestos containing roofing
4. (	Course review.
5. E	Examination.
——————————————————————————————————————	Siding specialty module.
	dentification and discussion of siding materials which may contain asbestos. es and physical appearance of asbestos siding materials.
2. F	Recommended work practices
	a. Work techniques for minimizing fiber releases; wetting, procedures for
<del>removal of</del>	asbestos cement products. Discussion of prohibited work practices.
<del>vacuumed :</del>	b. Work practices for nonfriable removal, wetting, hand tools, HEPA tools, use of sealants.
	c. Ventilation system lock out, sealing of intake and exhaust vents, windows,
<del>doors, chin</del>	nneys and all openings.
	d. Positioning of warning signs and designation of regulated areas.
sealing of f	e. Clean up and disposal techniques, construction of leak tight containers, criable ACM edges or wetting of edges.
	f. Safety practices and hazard prevention during removal of siding.
	(1) Scaffold and ladder hazards.

	(2) Slips, trips, and falls.
<del>mater</del>	3. Recommended safe work practices for installation of asbestos containing siding ials.
	—4. Course review.
	5. Examination.
	E. RFS Supervisor Module.
	1. Pre-work activities and considerations.
	a. Determination of asbestos containing materials.
	(1) Methods of identification.
	(2) Inspection report.
	b. Air monitoring, specific methods and documentation procedures.
	2. Assessment of the work area.
	a. Check for difficulty of isolating the work area.
	b. Necessary considerations if areas adjacent to the activity will be occupied.
	c. Check for items requiring special protection.
signs,	3. Site consideration and preparations. Regulated areas, barricade set_up, warning etc.
	4. Supervisory techniques, worker training, cleanliness of the job site.
local	5. Record keeping, disposal of asbestos containing waste, review of federal, state and laws, regulations, and standards, including:
	a. OSHA regulations;
	b. NESHAP requirements; and
	c. Department of Transportation regulations (49 CFR 172, Subpart H)
	6. Nonfriable removal techniques.
	7. Course review.

	8. Examination.
18	VAC 15-20-900. Length of RFS training. (Repealed)
	A. Each RFS worker training course shall consist of at least eight hours (the basic
mo	lule and one specialty module) of instruction.
mod	B. Each RFS supervisor training course shall consist of at least 12 hours (the basic lule, one specialty module and the supervisor module) of instruction.
18 V	VAC 15-20-910. Examination. (Repealed)
be a	Upon completion of an approved RFS training course, a closed book examination will administered. Each examination shall cover the topics included in the instructed modules.
Cor	sons who pass the examination and fulfill course requirements will receive a Certificate of in the replacement of the course requirements will receive a Certificate of in the course requirements will receive a Certificate of in the course requirements will receive a Certificate of the receive and the receive a Certificate of the receive and the receive a Certificate of the receive and the receive and the receive a Certificate of the receive and the receive a Certificate of the receive a Certificate of the receive and the receive and the receive a Certificate of the receive and the receive a Certificate of the receive a Certificate of the receive and the receive and the receive a Certificate of the receive and the receive and the receive a Certificate of the receive and the receive an
<del>25 (</del>	questions for each module of instruction.
18 <b>'</b>	VAC 15-20-920.—Refresher training course. (Repealed)
app	A. RFS worker and supervisor refresher training shall be at least 1/2 day (four rs). The course shall review federal and state regulations and discuss changes if licable, and review developments in state of the art procedures. A review of the
	owing topics from the initial RFS worker training course shall be included in the RFS ker refresher training course:
	1. Physical characteristics;
	2. Health effects related to asbestos exposure;
	3. Personal protection equipment;
	4. State of the art work practices;
	5. Recommended work practices; and
	6. Recommended safe work practices for installation.
	B. A review of the following topics from the initial RFS supervisor training module
cou	rse shall be included in the RFS supervisor refresher training course:
	1. Prework activities;
	2. Site consideration and preparation; and
	3. Record keeping and disposal of asbestos-containing waste.

1	
2 3	C. A written closed book examination will be administered covering the topics
_	included in the asbestos RFS worker or supervisor refresher courses. The examination will appoint of no favor than 50 questions. The passing seems will be 70% correct. Persons who
4	consist of no fewer than 50 questions. The passing score will be 70% correct. Persons who
5	pass the asbestos RFS worker or supervisor refresher training course examination will
6	receive a Certificate of Completion as specified in 18 VAC 15-20-490.
7	10 VA C 17 20 020 PEG :
8	18 VAC 15-20-930. RFS inspector training requirements. (Repealed)
9	A L . DEG L L
10	Asbestos RFS inspectors shall complete a three day (24 hours) training course as
11	outlined below or an individual who has successfully completed the RFS supervisor training
12	course shall complete the one and one half day (12 hours) of training found in Part II of the
13	outline which follows. The course shall include lectures, demonstrations, four hours of
14	hands on training, course review and a written examination. The RFS inspector training
15	course shall address the following topics:
16	DADEL ( ' ' 101 )
17	——————————————————————————————————————
18	
19	1. Background information on asbestos.
20	
21	a. Identification of asbestos, and examples and discussion of the uses and
22	locations of asbestos in buildings.
23	
24	b. Physical appearance of asbestos.
25	2 Detailed to the effects well-to die and other comments
26 27	2. Potential health effects related to asbestos exposure.
	The nations of schools unlated discourse
28	a. The nature of asbestos related diseases.
29	1. Description of several data assume that the last of sections and the last of sections.
30	b. Routes of exposure, dose response relationships and the lack of a safe
31 32	exposure level.
	The averagious between signmette amelians and selectes averages
33	c. The synergism between cigarette smoking and asbestos exposure.
34	d. I stance maried for schootes related discourse a discoursion of the relationship
35	d. Latency period for asbestos related diseases, a discussion of the relationship
36 37	of asbestos exposure to asbestosis, lung cancer, mesothelioma and cancer of other organs.
	2. Understonding of heilding systems
38	3. Understanding of building systems.
39	The internal stienching between DES musicate and other building systems is
40	a. The interrelationship between RFS projects and other building systems, ie.,
41	heating, ventilation and air conditioning systems.
42	h Whose ashestes is found in DEC assuments whose to look for ACM
43	b. Where asbestos is found in RFS components, where to look for ACM.
44	a Identification of house accuracy areas
45	c. Identification of homogeneous areas.
46	

4. Ins	spector respiratory protection and equipment.
	a. Classes and characteristics of respirator types.
	b. Limitations of respirators.
nrocedures f	c. Proper selection, inspection, donning, use, maintenance, and storage or respirators.
<del>procedures r</del>	or respirators.
pressure fitti	d. Methods of field testing of the facepiece to face seal (positive and negative); qualitative and quantitative fit testing procedures.
5. Re	<del>gulations.</del>
	a. Virginia regulations and statutes.
DES projects	b. Differences in federal/state requirements where applicable and effect on
RFS projects	ਸ
(NESHAP) (	c. A review of the National Emission Standards for Hazardous Air Pollutants 40 CFR 61, Subpart M).
Document (I	d. A review of the Regulated Asbestos Containing Material Guidance EPA 340/1-90-018).
PAR'	T II (minimum 12 hours).
<del>6. Fu</del>	nctions, qualifications and role of RFS inspectors.
	a. Discussions of prior experience and qualifications.
	b. Discussions of the sanctions and purpose of licensure.
	c. Discussion of the inspection process to include inventory of ACM and
<del>physical asse</del>	essment of RFS materials.
7. Le	gal liability and defenses.
	a. Responsibilities of the RFS inspector, a discussion of comprehensive
<del>general liabi</del> <del>liability poli</del>	lity policies, claims made and occurrence policies, environment and pollution cy clauses; state liability insurance requirements.
	b. Bonding and relationship of insurance availability to bond availability.
8. Pro	einspection planning.

a. Employee, building occupants and building owner relations.
b. Building record review, identity of probable homogeneous areas.
c. Consultation with maintenance or building personnel.
d. Review of previous inspection, sampling and abatement records of a
. Inspection for nonfriable asbestos containing material and assessment of the of friable ACM.
a. Procedures to follow in conducting visual inspections for nonfriable ACM.
b. Types of building materials that may contain asbestos.
c. Touching materials to determine friability.
d. Open return air plenums and their importance in HVAC systems.
e. Assessing damage, significant damage, potential damage, and potential nt damage.
f. Amount of suspected ACM, both in total quantity and as a percentage of the
g. Type of damage.
h. Accessibility.
i. Material's potential for disturbance.
j. Known or suspected causes of damage or significant damage, and tion as assessment factors.
0. Bulk sampling/documentation of ACM.
a. Techniques to ensure sampling in a randomly distributed manner.
b. Techniques for bulk sampling.
c. Sampling equipment the inspector should use.
d. Patching or repair of damage done in sampling; an inspector's repair kit.
e. Discussion of polarized light microscopy.

	f. Choosing an accredited laboratory to analyze bulk samples.
	g. Quality control and quality assurance procedures.
	h. Variability between field and laboratory protection factors.
	i. Factors that alter respirator fit (e.g., facial hair).
	j. The components of a proper respiratory protection program.
	k. Selection and use of personal protective clothing.
	l. Use, storage, and handling of nondisposable clothing.
11. F	Record keeping and writing the inspection report.
	a. Labeling of samples and keying sample identification to sampling location
	b. Recommendations on sample labeling.
	c. Detailing of ACM inventory.
	d. Photographs of selected sampling areas and examples of ACM condition
12. R	Regulations.
	a. USEPA Worker Protection Rule.
	b. OSHA Asbestos Construction Standard (29 CFR 1926.58.)
	c. OSHA Respirator Regulation (29 CFR 1910.134).
	d. Virginia asbestos regulations.
12 E	Field trip.
13.1	-
	a. Including a field exercise with a walk through inspection.
<del>locations.</del>	b. On site discussion on information gathering and determination of sample
iocations.	
	c. On site practice in physical assessment.

14. Course review. A review of key aspects of	the training course.
15. Examination.	
18 VAC 15-20-940. Examination: asbestos RFS inspe	ectors. (Repealed)
Upon completion of an approved RFS inspecto	or training course, a closed book
examination will be administered. The examination sh	
RFS inspectors training module. Persons who pass the	
requirements will receive a Certificate of Completion a	
1. Fifty multiple choice questions; and	
2. Passing score: 70% correct.	
18 VAC 15-20-950. Refresher RFS inspector training	-course. (Repealed)
A. Refresher courses shall be 1/2 day (four hor	ure) for DES increators. The course
shall review federal and state regulations, discuss chan	
liscuss developments in state of the art procedures. A	
shall be included in the RFS inspector refresher training	
man of moraded in the real subspector remedies truming	is course.
1. Potential health effects related to asbestos ex	<del>xposure;</del>
2. Inspection for nonfriable asbestos containing	g material (ACM) and assessment of
the condition of friable ACM;	
3. Bulk sampling/documentation of ACM; and	
4. Record keeping and writing the inspection r	<del>report.</del>
B. A written closed book examination will be a	administered covering the topics
ncluded in the asbestos RFS Inspector refresher training	<u> </u>
consist of no fewer than 50 questions. The passing sco	
pass the refresher examination will receive a Certificat	
VAC 15-20-490.	
DADTWIII	
<del>PART XVII.</del> <del>FEE SCHEDULI</del>	<del>E.</del>
18 VAC 15-20-960. Fee schedule. (Repealed)	
CATEGORY	FEE AMOUNT
SATEOOKI	TEL ANIOUNI
Asbestos Contractor's License Application	\$40
Renewal	<del>\$40</del>
Late Renewal	<u>\$25</u>

1		
2	Asbestos Worker's License Application	<del>\$25</del>
3	Renewal	<del>\$25</del>
4	Late Renewal	<del>\$25</del>
5		
6	Asbestos Supervisor's License Application	<del>\$25</del>
7	Renewal	<del>\$25</del>
8	Late Renewal	<del>\$25</del>
9		
10	Asbestos Inspector's License Application	\$25
11	Renewal	\$25
12	Late Renewal	<del>\$25</del>
13		·
14	Asbestos Management Planner's License Application	<del>\$25</del>
15	Renewal	<u>\$25</u>
16	Late Renewal	\$25
17	2400 1000 1002	Ψ=υ
18	Asbestos Project Designer's License Application	<del>\$25</del>
19	Renewal	\$25
20	Late Renewal	\$25
21	Late Renewal	Ψ23
22	Asbestos Project Monitor's License Application	<del>\$25</del>
23	Renewal	\$25
24	Late Renewal	\$25
25	Late Renewal	Ψ23
26	Asbestos Analytical Laboratory License Application	\$40
27	Renewal	\$40 \$40
28	Late Renewal	\$25
28 29	Late Reliewal	<del>- \$23</del>
30	EVALUATION OF TRAINING COURSES	
31	EVALUATION OF TRAINING COURSES	
32	Asbestos Worker Training Courses	\$2000
33	e e e e e e e e e e e e e e e e e e e	
	Refresher Course (8 hours)	\$400
34	A.1. ( C . T. ' . C . (401 . )	¢1.c00
35	Asbestos Supervisor Training Course (40 hours)	\$1600 \$400
36	Refresher Course (8 hours)	\$400
37		<b>#120</b> 6
38	Asbestos Inspector Training Course (24 hours)	\$1200
39	Refresher Course (4 hours)	\$200
40		
41	Asbestos Management Planner Training Course (16 hours)	\$800
42	Refresher Course (4 hours)	<del>\$200</del>
43		
44	Asbestos Project Designer Training Course (24 hours)	\$1200
45	Refresher Course (8 hours)	\$400
46		

## FINAL ASBESTOS REGULATION

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1	Asbestos Project Monitor Training Course (40 hour comp.) \$2000	
2	Asbestos Project Monitor Training Course (16 hours)	\$800
3	Refresher Course	\$400
4		
5	RFS Worker Basic Module	\$200
6		
7	Dishonored check service fee	<del>\$25</del>
8		
9		
10		
11		
12		
13		
14	I certify that this regulation is full, true, and correctly dated.	
15		
16		
17		
18	(Cionatura of Contifuino Official)	
19	(Signature of Certifying Official)	
20	Printed Name and Title of Certifying Official	
21	Printed Name of Agency	
22	Doto	
23	Date:	