DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 1 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

Final Regulation adopted 12/21/2000

1	BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS
2	
3	REGULATIONS
4 5	PART I.
6	
7	DEFINITIONS, LICENSING AND CLASSIFICATION REQUIREMENTS.
8	
9	
10	18 VAC 160-20-10. Definitions.
11	
12	The following words and terms, when used in this chapter, shall have the following meaning unless
13	the context clearly indicates otherwise:
14	"Doord" moons the Doord for Waterworks and Wastervister Works Operators
15 16	"Board" means the Board for Waterworks and Wastewater Works Operators.
10 17	"Category" means the two divisions of waterworks and wastewater works and operators' licenses,
18	one being waterworks and the second being wastewater works.
19	
20	"Classification" means the divisions of each category of waterworks and wastewater works and
21	operators' licenses into classes where Class "I" represents the highest classification.
22	
23	"Contact hour" means 50 minutes of participation in a structured training activity.
24	
25	"Continuing Professional Education (CPE)" means participation in a structured training activity that
26	enables a licensed waterworks operator to maintain and increase the competence required to assure the
27 28	public's protection.
29	"Department" means the Virginia Department of Professional and Occupational Regulation.
30	
31	"Experience" means time spent learning how to physically and theoretically operate the waterworks
32	or wastewater works as an operator-in-training or time spent operating a waterworks or wastewater
33	works for which the operator is currently licensed.
34	
35	"Licensed operator" means an operator with a license in the category and with a classification equal
36	to or higher than the classification of the waterworks or wastewater works being operated.
37	"I iconsee" means on individual holding a valid license issued by the based
38	"Licensee" means an individual holding a valid license issued by the board.
39 40	"Licensure" means a method of regulation whereby the Commonwealth, through the issuance of a
10	Excensure means a meanor of regulation whereby the commonwealth, anough the issuance of a

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- license, authorizes a person, possessing the character and minimum skills, to engage in the practice of a
 profession or occupation which is unlawful to practice without a license.
 - <u>"Operate" means any the act of an individual, which may impact on the finished water quality at a waterworks or the plant effluent at a wastewater works.</u>
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"Operating staff" means individuals employed or appointed by an owner to work at a waterworks or wastewater works.

10 "Operator" means any individual employed or appointed by any owner, and who is designated by 11 such owner to be the person in responsible charge, such as a supervisor, a shift operator, or a substitute 12 in charge, and whose duties include testing or evaluation to control waterworks or wastewater works 13 operations. Not included in this definition are superintendents or directors of public works, city 14 engineers, or other municipal or industrial officials whose duties do not include the actual operation or 15 direct supervision of waterworks or wastewater works.

- "Operator-in-training" means an individual employed by an owner to work under the direct
 supervision and direction of an operator holding a valid license in the proper category and classification
 for the purpose of gaining experience and knowledge in the duties and responsibilities of an operator of
 a waterworks or wastewater works. An operator-in-training is not an operator.
- "Owner" means the Commonwealth of Virginia, or any political subdivision thereof, any public or
 private institution, corporation, association, firm or company or any other entity organized or existing
 under the laws of this Commonwealth or of any other state or nation, or any person or group of persons
 acting individually or as a group, who own, manage, or maintain waterworks or wastewater works.
- "Person" means any individual, group of individuals, a corporation, a partnership, a business trust,
 an association or other similar legal entity engaged in operating waterworks or wastewater works.
 [Remains in Code]
- 31 "Renewal" means continuing the effectiveness of a license for another period of time.
- "Responsible charge" means <u>the</u> designation by the owner of any individual to have <u>the</u> duty and <u>the</u>
 authority to operate or modify the operation of <u>a</u> waterworks or wastewater works.
- "Structured training activity" means a formal educational process designed to permit a participant to
 learn a given subject or subjects through interaction with an instructor in a course, seminar, conference
 or other performance-oriented format.
- 39
- 40 "Wastewater works" means each <u>a</u> system of (i) sewerage systems or sewage treatment works

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serving more than 400 persons, as set forth in § 62.1-44.18 of the Code of Virginia; (ii) sewerage 1 systems or sewage treatment works serving fewer than 400 persons, as set forth in § 62.1-44.18 of the 2 Code of Virginia, if so certified by the State Water Control Board; and (iii) facilities for discharge to into 3 state waters of industrial wastes or other wastes, if certified by the State Water Control Board. 4 5 "Waterworks" means each a system of that structures and appliances used in connection with the 6 7 collection, storage, purification, and treatment of water serves piped water for drinking or domestic use to (i) at least 15 connections, or (ii) at least 25 of the same individuals for more than six months out of 8 the year. and the distribution thereof to the public, except distribution piping. Systems serving fewer than 9 400 persons shall not be considered to be a waterworks unless certified by the Department of Health to 10 be such. The term waterworks shall include all structures, equipment, and appurtenances used in the 11 storage, collection, purification, treatment and distribution of pure water, except the piping and fixtures 12 inside the building where such water is delivered. 13 14 18 VAC 160-20-20. License required. (Repealed) 15 16 To serve as an operator of a waterworks or wastewater works, it shall be necessary to hold a valid 17 license issued by the board of a classification equal to or greater than the classification of the 18 waterworks or wastewater works and in the appropriate category. 19 [Moved to 18 VAC 160-20-74] 20 21 18 VAC 160-20-30. License renewal required. (Repealed) 22 23 A. Licenses for waterworks operators shall expire on the last day of February of each 24 odd numbered year. Licenses for wastewater works operators shall expire on the last day of February 25 of each even numbered year. The Department of Professional and Occupational Regulation shall mail a 26 renewal notice to the licensee outlining the procedures for renewal. Failure to receive this notice shall not 27 relieve the licensee of the obligation to renew. 28 29 B. Each licensee applying for renewal shall return the renewal notice and fee established in 18 30 VAC 160-20-40 of this chapter to the Department of Professional and Occupational Regulation prior 31 to the expiration date shown on the license. If the licensee fails to receive the renewal notice, a copy of 32 the expired license may be submitted with the required fee. 33 34 C. If the operator fails to renew the license within 30 days after the expiration date on the license, a 35 penalty fee as established in 18 VAC 160-20-40 of this chapter shall be required, in addition to the 36 renewal fee. 37 38 D. Any operator failing to renew within one year of the expiration date on the license must apply 39 for a new license by examination in accordance with Part II of this chapter. Such an individual shall be 40

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1	deemed to be eligible to sit for the same category and class of license as the expired license.
2 3	E. Limited waterworks operator licenses, issued under the authority of § 4.02.2 of the Rules and
4	Regulations of the State Board for Certification of Operators of Water and Wastewater Works
5	(effective March 1, 1977), expiring on February 28, 1993, will not be renewed. Limited wastewater
6	works operator licenses, issued under the authority of § 4.02.2 of the Rules and Regulations of the State
7	Board for Certification of Operators of Water and Wastewater Works (effective March 1, 1977),
8	expiring on February 28, 1994, will not be renewed. A holder of a limited license shall be deemed to
9	have met the experience and education requirements of this chapter and shall be eligible to sit for an
10	examination upon application in the same category and in the same or lower classification as the limited
11	license currently held.
12	
13	[Moved to 18 VAC 160-20-106]
14	
15	18 VAC 160-20-40. Fees. (Repealed)
16	— Fees are nonrefundable and shall not be prorated.
17	
18	——————————————————————————————————————
19 20	
21	1. Approarion for needstre by examination of by recipioenty \$65.
22	2. Application for reexamination \$75.
23	
24	<u>— 3. Renewal of license \$45.</u>
25	
26	—— 4. Penalty for failure to renew license within 30 days of expiration \$25.
27 28	[Moved to 18 VAC 160-20-102]
28 29	[Moved to 18 VAC 100-20-102]
30	18 VAC 160-20-50Waterworks.(Repealed)
31	
32	A. Class V shall mean any waterworks as follows:
33	
34	
35	systems or groundwater systems with no treatment or consecutive systems employing repumping or
36	rechlorination or both, and classified by the Department of Health as public water supplies; or
37	
38	2. Waterworks classified by the Department of Health as Class V waterworks.
39	
40	B. Class IV shall mean any waterworks as follows:

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3	slow sand filtration, rechlorination, and other approved methods of treatment, or any combination
4	thereof, except fluoridation, serving less than 5,000 persons and classified by the Department of Health
5	as public water supplies; or
6	
7	2. Waterworks classified by the Department of Health as Class IV waterworks.
8	
9	
10	
11	<u>1. Waterworks employing processes including, but not limited to, chemical coagulation,</u>
12	sedimentation, filtration other than slow sand filtration, disinfection, fluoridation, aeration, corrosion
13	control, or any combination thereof, serving a population of less than 5,000, or having a rated capacity
14	of less than 0.5 mgd; or
15	
16	2. Waterworks employing processes including disinfection, corrosion control, iron and manganese
17	removal, softening, rechlorination, and other approved methods of treatment serving 5,000 persons or
18	more; or
19	2. Weterstele englasie flassidation schick and a data bisken destification and schick and
20	<u>3. Waterworks employing fluoridation which are not under a higher classification and which are</u>
21	classified by the Department of Health as public water supplies; or
22	— 4. Waterworks classified by the Department of Health as Class III waterworks.
23	4. Waterworks classified by the Department of Health as Class in waterworks.
24 25	
26	D. Class II shall mean arry water works as follows.
27	1. Waterworks employing processes including, but not limited to, chemical coagulation,
28	sedimentation, filtration, disinfection, fluoridation, aeration, corrosion control, or any combination
29	thereof, serving a population of at least 5,000 persons, but less than 50,000 persons, or having a rated
30	capacity of at least 0.5 mgd, but less than 5.0 mgd; or
31	
32	
33	sedimentation, filtration, and disinfection, employing the high rate filtration process, and having a filter
34	rate greater than 2.0 gpm/sq. ft., serving a population less than 50,000 persons, or having a rated
35	capacity less than 5.0 mgd; or
36	
37	— 3. Waterworks classified by the Department of Health as Class II waterworks.
38	
39	E. Class I shall mean any waterworks employing processes including, but not limited to, chemical
40	coagulation, sedimentation, filtration, disinfection, fluoridation, aeration, corrosion control, or any

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1	combination thereof, serving a population of 50,000 persons or more or having a rated capacity of 5.0
2	mgd or more.
3	
4 5	[Moved to 18 VAC 160-20-120]
б	18 VAC 160-20-60. Wastewater works.(Repealed)
7 8 9	A. Class IV shall mean any wastewater works as follows:
10	
11 12	equal to or less than 1.0 mgd; or
13 14	
15 16	
17	
18 19	than 0.04 mgd, but equal to or less than 0.5 mgd; or
20	
21	greater than 0.04 mgd, but equal to or less than 0.5 mgd; or
22 23	
24 25	having a design hydraulic capacity greater than 0.04 mgd, but equal to or less than 0.1 mgd; or
25 26 27	
28	5. Wastewater works that do not use biological or physical/chemical treatment methods but are
29 30	classified by the State Water Control Board as Class III wastewater works.
31	C. Class II shall mean any wastewater works as follows:
32	
33	
34	than 0.5 mgd, but equal to or less than 5.0 mgd; or
35	
36	2. Wastewater works using physical/chemical treatment methods having a design hydraulic capacity
37	greater than 0.5 mgd, but equal to or less than 5.0 mgd; or
38	2 Wasterwater works using combinations of historical and physical/chamical tractment methods
39	<u>3. Wastewater works using combinations of biological and physical/chemical treatment methods</u> ,
40	having a design hydraulic capacity greater than 0.1 mgd, but equal to or less than 2.5 mgd.

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1	
2	D. Class I shall mean any wastewater works as follows:
3	
4	
5	than 5.0 mgd; or
б	
7	
8	greater than 5.0 mgd; or
9	
10	3. Wastewater works using combinations of biological and physical/chemical treatment methods,
11	having a design hydraulic capacity greater than 2.5 mgd.
12	
13	- E. Biological treatment methods as used in this section shall mean a fixed film or suspended growth
14	biological treatment process, such as:
15	
16	1. Activated sludge.
17	
18	<u> </u>
19	
20	
21	
22	
23	
24	5. Land application.
25	
26	 6. Biological nutrient removal process.
27	
28	- F. Physical/chemical treatment methods as used in this section shall mean a treatment process such
29	as:
30	
31	 — 1. Chemical coagulation, flocculation and precipitation.
32	
33	<u> </u>
34	
35	
36	
37	4. Breakpoint chlorination.
38	
39	— 5. Demineralization (including but not limited to ion exchange, reverse osmosis, electrodialysis).
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1 [Moved to 18 VAC 160-20-130]

2

3

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 9 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		PART II.
2		
3		ENTRY <u>LICENSE</u> REQUIREMENTS.
4		
5		
б	18 VAC	160-20-70Licensure.(Repealed)
7		
8		board shall issue a Class V, IV, III, II, or I license only after an individual has met all
9	-	e and examination requirements as set forth in this chapter. Each license shall be in the
10		te category and classification and shall indicate the highest classification of works the holder is
11	qualified	to operate.
12		
13	<u>18 VAC</u>	160-20-74. License required.
14	-	
15		erve as an operator of a waterworks or wastewater works, it shall be necessary to hold a valid
16	-	ssued by the board for a classification equal to or greater than the classification of the
17		ks or wastewater works to be operated and in the approportate category. Issuance of a new
18	-	ion of license shall void all previously issued licenses in the same category. No licensee shall
19		licenses of different classifications in the same category. The board shall issue a license only individual has met all experience and examination requirements as set forth in these regulations.
20		icividual has thet all experience and examination requirements as set forum in these regulations.
21 22	18 VAC	160-20-76. Application
22	10 VAC	100-20-70. Application
24	A.	Individuals desiring to be issued a license shall apply on forms supplied by the board. The
25	11.	application shall be completed according to the instructions provided with the application.
26		Incomplete applications will be returned to the applicant. Fees shall remain valid for 90 days
27		and shall not be refunded.
28		
29	B.	Individual applicants shall be at least 18 years of age.
30		
31	C.	The applicant shall disclose the following information about himself.
32		
33		1. Any conviction by a court in any jurisdiction of any felony or of any misdemeanor
34		involving lying, cheating or stealing, or of any [material] misrepresentation while engaged
35		in waterworks or wastewater works activities. Any plea of nolo contendere shall be
36		considered a conviction for purposes of this subsection. A certified copy of a final
37		order, decree or case decision by a court or regulatory agency with the lawful authority
38		to issue such order, decree or case decision shall be prima facia evidence of such
39		conviction or discipline.
40		

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1		2. <u>Any disciplinary action taken by the board or another jurisdiction in connection with the</u>
2		applicant's activities as a waterworks or wastewater works operator, including but not
3		limited to, monetary penalties, fines, suspension, revocation, or surrender of a license in
4		connection with a disciplinary action.
5		
6	D.	Each applicant shall disclose his physical address. A post office box shall not be accepted in
7		lieu of a physical address.
8		
9	E.	The fee established by 18 VAC 160-20-102 shall accompany the application and shall not
10		be refunded.
11		
12	F.	The receipt of an application and the deposit of fees in no way indicates approval of the
13		application by the board.
14		
15	18 VAC	C 160-20-80. Licensure by reciprocity. Individuals certified or licensed in other
16	<u>jurisdic</u> t	tions.
17		
18	The	board may issue a [license] to any person Any applicant holding a currently valid license or
19	certificat	e in any state, territory, or possession of the United States, or in any foreign country, or a
20	certificat	e issued by the Association of Boards of Certification, provided the requirements and standards
21	under wl	hich the license or certificate was issued are equivalent to those established by this chapter in
22	another j	jurisdiction who meets the requirements of this chapter, including experience and education,
23	<u>may</u> tak	e the examination in the Virginia category and classification comparable to the license or
24	certificat	e held in the other jurisdiction.
25		
26	<u>18 VAC</u>	160-20-85. Restricted License of Class VI Waterworks.
27		
28	А.	The board shall issue a restricted license to operate a Class VI waterworks to the Class VI
29		waterworks owner or the Class VI waterworks owner's designee upon application for such
30		restricted license by the waterworks owner or his designee and provided said application is
31		received within two years after the effective date of this chapter. Waterworks owners or their
32		designees who fail to apply within the two year period must apply for a license pursuant to 18
33		VAC 160-20-90. A restricted license shall be limited to one license per Class VI
34		waterworks facility. The restricted license is site specific and non-transferable. The restricted
35		license expires three years from the date of issuance, and is not subject to renewal.
36		
37	B.	Each applicant for a restricted license to operate a Class VI waterworks shall apply on the
38		application form provided by the board which establishes that the applicant:
39		
40		1. <u>Is at least 18 years of age.</u>

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1		
2	2.	Has the following education and experience:
3		
4		a. <u>A high school diploma or G.E.D. and six months experience, or</u>
5		
6		b. <u>Has no high school diploma or G.E.D. and has 12 months experience.</u>
7		
8	3.	Is the current operator of a specific Class VI system and does not hold a waterworks
9		license issued by the board; and
10		
11	4.	Understands that the restricted Class VI license that may be issued becomes invalid if he
12		leaves the facility for which the the license is sought or is issued a waterworks operator
13		license in any other Class.
14		
15	18 VAC 160	-20-90. Licensure by experience and examination.
16	. .	
17		e is based upon having applicable experience and by demonstrating minimum required
18		skills and abilities through an by examination. Education, specialized training, and
19	-	the other category may be substituted for the required experience as specified in this
20	section. These	e requirements are summarized in Table 1.
21	A Eve	anianas. For numacas of this chapter annonianas requirements are anneased in terms of
22	-	erience. For purposes of this chapter, experience requirements are expressed in terms of indar periods of full-time employment with actual hands-on experience as an operator or as
23		operator-in-training at a waterworks or wastewater works in the same category as the
24 25		ise being applied for. All experience claimed on the application for licensure must be
25 26		fied by the individual's immediate supervisor.
20 27	ceru	ned by the individual's infinediate supervisor.
28	1 A	year of full-time employment is defined as a minimum of 1760 hours per year during a
29		velve-month period or <u>a minimum of 220</u> workdays per year in a twelve month period . A
30		vorkday is defined as attendance at a waterworks or wastewater works to the extent
31		equired for proper operation. More than 1760 hours or 220 work days during a twelve
32		nonth period will not be considered as more than one year of full time employment.
33	_	<u></u>
34	2. E	xperience gained as an operator-in-training must be obtained under the supervision of an
35		perator holding a valid license of the same category and of a classification equal to or
36		igher than the classification of the waterworks or wastewater works at which the
37		xperience is gained. The supervising operator shall certify the experience on the
38		pplication form as accurate and relevant to the classification and category of license for
39		hich the application is being submitted.
40		

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1	3. Partial credit may be given for actual hours of work or workdays experience if the applicant
2	works as an operator or as an operator-in-training less than full time.
3	
4	4. Experience solely limited to the operation and maintenance of wastewater collection systems
5	and water distribution systems operation and maintenance, laboratory work, plant
6	maintenance, and other nonoperating duties shall not be counted as experience as an
7	operator or as an operator-in-training.
8	
9	5. Experience limited to water distribution system operation and maintenance shall be

10

5.	Experience	minicu it) water	uisuibuuoii	system	operation	anu	mannenance si	ian
	considered	only when	applying	g for a Class V	V or Clas	<u>ss VI</u> water	work	as operator licens	se.

11

License Class	¹ Education1	Current License	Total Experience Required (Years)	Experies	rce must be at higher (Cl.IV	wility or Cl.II	Maximum Substitution Permitted (Years)
¥	BS degree	None	0.5	0.5			0.0
	High School	None	0.5	0.5			0.0
	None	None	1.0	1.0			0.0
₩	BS degree	None	0.5		0.5		0.0
	High School	None	0.5		0.5		0.0
	None	None	1.0		1.0		0.0
Ħ	BS degree	None	1.0		1.0		0.0
		₩	1.0		1.0		0.0
	High School	None	2.0		2.0		1.0

2.0

4.0

1.5

1.5

1.5

4.0

2.0

4.0

0.5

0.5

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2.0

1.0

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2.0

Table 1. Summary of requirements for operator's license by class. 12

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None

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High School

None

BS degree

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	None	Ħ	7.0		3.0		3.5
Ŧ	BS degree	Ħ	2.5			1.0	0.0
	High School	Ħ	6.0			2.0	3.0
	None	Ħ	10.0	4.0	3.0	3.0	5.0

1

2	[EN1] BS degree -	- bachelor's deg	ree in engine	ering or engin	eering technolo	av
2	-ILIALI Do deglee -	- bucheror s deg.		ching of engin		5 ,

- 3 or in physical, biological, or chemical science or engineering. All other
- 4 bachelor's degrees will be considered the equivalent of high school education
- 5 for the purpose of meeting the education requirement, although individual
- 6 courses in science, engineering, or public health may be substitutes for
- 7 experience in accordance with 18 VAC 160-20-90.
- 9 High School = high school diploma or GED or college degree other than BS degree
- 10 defined above.
- 11

17

19

24

25

26 27

8

- 12 All experience must be at a waterworks or wastewater works of the appropriate
- 13 category and of a class equal to or higher than the class equal to or higher
- 14 than the class indicated in the table. Experience gained at a waterworks or
- 15 -wastewater works of higher class than currently held license must be direct
- 16 supervision and direction of a properly licensed operator.
- 18 B. Specific requirements for licenses.
- 20
 1. Specific requirements for a Class VI license. Applicants for licensure as a Class VI

 21
 waterworks operator shall meet one of the following requirements and pass a

 22
 board-approved examination:

 23
 - a. Have (i) a high school diploma or GED and (ii) at least six months of experience as an operator-in-training in a Class VI, Class V, Class IV, Class III, Class II, or Class I waterworks; or
- b. Have (i) no high school diploma and (ii) at least one year of experience as an
 operator-in-training in a Class VI, Class IV, Class III, Class II, or Class I
 waterworks.
- 31
- Specific requirements for a Class V license. Applicants for licensure as a Class V waterworks operator shall meet one of the following requirements and pass a

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1 2		board-approved examination:
3		a. Have (i) a high school diploma or GED and (ii) at least six months of experience as an operator-in-training of waterworks of in a Class V, Class IV, Class III, Class II, or
5		Class I <u>waterworks; or</u>
6 7		b. Have (i) no high school diploma and (ii) at least one year of experience as an
8		operator-in-training of in waterworks of a Class V, Class IV, Class III, Class II, or
9		Class I <u>waterworks</u> .
10	2	Specific requirements for a Class IV license. Applicants for licensure as either a Class IV
11	3.	Specific requirements for a Class IV license. Applicants for licensure as <u>either</u> a Class IV waterworks or wastewater works operator shall meet one of the following requirements and
12		pass a board-approved examination:
13 14		pass a board-approved examination.
15		a. Have (i) a high school diploma or GED and (ii) at least six months of experience as an
16		operator-in-training of in waterworks or wastewater works of a Class IV, Class III,
17		Class II, or Class I waterworks or wastewater works (as appropriate); or
18		Cluss II, of Cluss I water works of wasterwater works (as appropriate), of
19		b. Have (i) no high school diploma and (ii) at least one year of experience as an
20		operator-in-training of in waterworks or wastewater works of a Class IV, Class III,
21		Class II, or Class I waterworks or wastewater works (as appropriate).
22		
23	4.	Specific requirements for a Class III license. Applicants for licensure as either a Class III
24		waterworks or wastewater works operator shall meet one of the following requirements and
25		pass a board-approved examination:
26		
27		a. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
28		biological or chemical science; and (ii) at least one year of experience as an
29		operator-in-training of in waterworks or wastewater works of a Class IV, Class III,
30		Class II, or Class I waterworks or wastewater works (as appropriate); or
31		
32		b. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
33		biological or chemical science; (ii) a Class IV license; and (iii) a total of at least one year
34		of experience as an operator or operator-in-training in of waterworks or wastewater
35		works of a Class IV waterworks or wastewater works (as appropriate) or as an
36		operator-in-training of in waterworks or wastewater works of a Class III, Class II, or
37		Class I waterworks or wastewater works (as appropriate); or
38		
39		c. Have (i) a high school diploma or GED and (ii) at least two years of experience as an
40		operator-in-training of in waterworks or wastewater works of a Class IV, Class III,

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 15 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		Class II, or Class I waterworks or wastewater works (as appropriate); or
2		
3		d. Have (i) a high school diploma or GED, (ii) a Class IV license, and (iii) a total of at least
4		two years of experience as an operator or operator-in-training of <u>in-waterworks or</u>
5		wastewater works of a Class IV waterworks or wastewater works (as appropriate) or
6		as an operator-in-training of in waterworks or wastewater works of a Class III, Class II
7 8		II, or Class I waterworks or wastewater works (as appropriate); or
o 9		e. Have (i) no high school diploma, (ii) a Class IV license, and (iii) a total of at least four
10		years of experience as an operator or operator-in-training in of waterworks or
11		wastewater works of a Class IV waterworks or wastewater works (as appropriate) or $\frac{1}{2}$
12		as an operator-in-training of in waterworks or wastewater works of a Class III, Class
13		II, or Class I waterworks or wastewater works (as appropriate).
14		
15	5.	Specific requirements for a Class II license. Applicants for licensure as either a Class II
16		waterworks or wastewater works operator shall meet one of the following requirements and
17		pass a board-approved examination:
18		
19		a. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
20		biological or chemical science; and (ii) a total of at least 1 1/2 years of experience, of
21		which at least six months without substitutions shall be as an operator-in-training of in
22		waterworks or wastewater works works of a Class III, Class II or Class I waterworks
23		or wastewater works (as appropriate); or
24		
25		b. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
26		biological or chemical science; (ii) a Class IV license; and (iii) a total of at least 1 1/2
27		years of experience, of which at least six months without substitutions shall be as an
28		operator-in-training of in waterworks or wastewater works of a Class III, Class II or
29		Class I waterworks or wastewater works (as appropriate); or
30		
31		c. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
32		biological or chemical science; (ii) a Class III license; and (iii) a total of at least 1 1/2
33		years of experience, of which at least six months, without substitutions shall be as an
34		operator or operator-in-training of in waterworks or wastewater works of a Class III
35		waterworks or wastewater works (as appropriate) or as an operator-in-training of in
36		waterworks or wastewater works of <u>a</u> Class II or Class I <u>waterworks or wastewater</u>
37		works (as appropriate); or
38 39		d. Have (i) a high school diploma or GED, (ii) a Class III license, and (iii) a total of at least
39 40		four years of experience of which at least two years without substitutions shall be as an
τU		Tour years or experience or winen at least two years without substitutions shall be as all

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 16 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1 2 3		operator or operator-in-training of <u>in</u> waterworks or wastewater works of <u>a</u> Class III <u>waterworks or wastewater works (as appropriate)</u> or as an operator-in-training of <u>in</u> waterworks or wastewater works of <u>a</u> Class II or Class I <u>waterworks or wastewater</u>
4		works (as appropriate); or
5		
6		e. Have (i) no high school diploma, (ii) a Class III license, and (iii) a total of at least seven
7		years of experience of which at least three years without substitutions shall be as an
8		operator or operator-in-training of in waterworks or wastewater works of a Class III
9		waterworks or wastewater works (as appropriate) or as an operator-in-training of in
10		waterworks or wastewater works of <u>a</u> Class II or Class I <u>waterworks or wastewater</u>
11		works (as appropriate).
12	6	Specific requirements for a Class I license. Applicants for licensure as either a Class I
13 14	0.	waterworks or wastewater works operator shall meet one of the following requirements and
15		pass a board-approved examination:
16		
17		a. Have (i) a bachelor's degree in engineering or engineering technology, or in physical,
18		biological or chemical science; (ii) a Class II license; and (iii) a total of at least 2 1/2
19		years of experience, of which at least one year without substitutions shall be as an
20		operator or operator-in-training of in waterworks or wastewater works of a Class II
21		waterworks or wastewater works (as appropriate) or as an operator-in-training of in
22		waterworks or wastewater works of a Class I waterworks or wastewater works (as
23		<u>appropriate</u>); or
24		h Harry (i) a bish ashard dialarra an CED (ii) a Char II lianna and (iii) a tatal of at bast
25		b. Have (i) a high school diploma or GED, (ii) a Class II license and (iii) a total of at least
26 27		six years of experience of which at least two years without substitutions shall be as an operator or operator-in-training of in waterworks or wastewater works of a Class II
27		waterworks of wastewater works (as appropriate) or as an operator-in-training $\frac{\partial f}{\partial h}$ in
29		waterworks or wastewater works of a Class I waterworks or wastewater works (as
30		<u>appropriate</u>); or
31		
32		c. Have (i) no high school diploma, (ii) a Class II license, and (iii) a total of at least 10
33		years of experience of which at least three years without substitutions shall be as an
34		operator or operator-in-training of in waterworks or wastewater works of a Class II
35		waterworks or wastewater works (as appropriate) or as an operator-in-training of in
36		waterworks or wastewater works of a Class I waterworks or wastewater works (as
37		appropriate).
38		
39	C. Su	bstitutions for required experience.
40		

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 17 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1	For the purpose of meeting the experience requirements for licenses of Class III, Class II, and
2	Class I licenses, experience in the other category, relevant training in waterworks and
3	wastewater works operation, and formal education may be substituted for actual hands-on
4	experience in the category being applied for.
5	
б	1. Limitations on substitution.
7	
8	 Substitutions may not reduce the actual operator experience required to less than 2–1/2 years
9	for a Class I license, to less than 1-1/2 years for a Class II license, to less than one year for a Class
10	III license, or to less than 1/2 year for a Class IV or Class V license. b <u>a</u> . Under no
11	circumstances shall category experience, training, and education substitutions exceed 50% of the
12	total experience required in the appropriate subdivision of 18 VAC 160-20-90.
13	
14	
15	experience required to obtain a Class VI, Class V or a Class IV license as specified in 18 VAC
16	160-20-90 B.
17	
18	2. Category experience substitution. One half of the actual experience gained in the other category
19	may be substituted for required experience in the category of the license being applied for.
20	
21	3. Education substitution. Education may be substituted for part of the required experience, subject
22	to the limitations in 18 VAC 160-20-100 A as follows:
23	
24	a. Education used to meet the educational requirements for any class of license may not be
25	substituted for experience.
26	
27	b. Formal education. Formal education courses at a post-secondary level in physical, biological
28	or chemical science; engineering or engineering technology; waterworks or wastewater works
29	operation; or public health may be substituted for part of the required experience.
30	
31	(1) All education substituted for experience must be relevant to the category and classification of
32	the license being applied for.
33	
34	Education may be substituted for experience at a rate of one month experience for each semester hour
35	of college credit approved by the board. One quarter hour of college credit will be considered equal to
36	$\frac{2}{3}$ of a semester hour.
37	
38	
39	workshops, or similar specialized training, specifically approved by the board, may be substituted for
40	part of the required experience.
-	

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 18 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

Final Regulation adopted 12/21/2000

1

2	(1) All training substituted for experience must be relevant to the category and classification of the
3	license being applied for.
4	
5	(2) Training may be substituted for experience at a rate of one month experience for each training
6	credit (TC) approved by the board. One TC is awarded for each 10 hours of classroom contact time or
7	for each 20 hours of laboratory exercise and field trip time. No credit towards TCs is granted for
8	breaks, meals, receptions, and time other than classroom, laboratory and field trip contact time.
9 10	(3) All courses used for substitution must be approved by the board utilizing the criteria set forth
11	in Appendix A.
12	
13	1. Category experience substitution. One-half of the actual experience gained in the other
14	category may be substituted for required experience in the category of the license being
15	applied for.
16	
17	2. Education substitution. Education may be substituted for part of the required experience in
18	the category of the license being applied for, subject to the following limitations:
19	the category of the needse being uppred for, subject to the following initiations.
20	a. Education used to meet the educational requirements for any class of license may not be
21	<u>a. Education used to meet the educational requirements for any class of needse may not be</u> substituted for experience.
22	substituted for experience.
23	b. Formal education courses at a post-secondary level in physical, biological or chemical
24	science; engineering or engineering technology; waterworks or wastewater works
25	operation; or public health may be substituted for part of the required experience.
26	<u>·F···································</u>
27	(1) All education substituted for experience must be relevant to the category and
28	classification of the license being applied for.
29	
30	(2) Education may be substituted for experience at a rate of up to one month
31	experience for each semester hour of college credit approved by the board. One
32	quarter hour of college credit will be considered equal to 2/3 of a semester hour.
33	- <u>1</u>
34	(3) Substitution of formal education experience will be approved by the board only for
35	applicants who submit a transcript from the institution at which the course was
36	taken.
37	
38	c. Training. Waterworks or wastewater works operator training courses, seminars,
39	workshops, or similar training, specifically approved by the board, may be substituted
40	for part of the required experience.

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 19 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

Final Regulation adopted 12/21/2000

1	
2	(1) All training substituted for experience must be relevant to the category and
3	classification of the license being applied for.
4	
5	(2) Training may be substituted for experience at a rate of one month experience for
б	each training credit (TC) approved by the board. Up to one TC is awarded for
7	each 10 hours of classroom contact time or for each 20 hours of laboratory
8	exercise and field trip contact time. No credit towards TCs is granted for breaks,
9	meals, receptions, and time other than classroom, laboratory and field trip contact
10	time.
11	
12	(3) All courses used for substitution must be approved by utilizing the criteria set forth in
13	Part VI of this chapter.
14	
15	(4) Substitution of training for experience will be approved by the board only for
16	applicants who submit a copy of an appropriate certificate identifying the subject
17	matter of the course and the TC value, and signed by a representative of the
18	organization sponsoring the training.
19	
20	3. Limitations on substitution.
21	
22	a. Under no circumstances shall category experience, education, and training substitutions
23	exceed 50% of the total experience required under the appropriate sections of 18 VAC
24	<u>160-20-90.</u>
25	
26	b. No category experience, education, or training substitutions are permitted for the
27	experience required to obtain a Class VI, Class V or a Class IV license as specified in
28	<u>18 VAC 160-20-90 B.</u>
29	
30	D. Examination.
31	
32	A board-approved examination shall be administered at least twice a year.
33	
34	1. An individual may take the examination prior to fulfilling the education and experience
35	requirements, provided all requirements will be met within three months after the date the
36	applicant will take the examination. The results of the examination and the license shall not
37	be issued until all applicable requirements have been met and satisfactorily verified.
38	
39	2. An individual who is unable to take an examination at the time scheduled shall notify the
40	board prior to the date of the examination; such an individual shall be rescheduled for the

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DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 20 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		next examination. Failure to notify the board may require the submittal of a new application
2		and payment of fees, in accordance with § 1.4 and § 2.4 A.
3		
4	3.	Upon submission of an application for reexamination form provided by the board and
5		payment of the reexamination fee, an applicant who is unsuccessful in passing an
6		examination will be allowed to retake any examination(s) given the examination up to two
7		times within two years of the date of notification of initial unsuccessful examination results.
8		After the two-year period has elapsed If the two-year period elapses, or if an applicant fails
9		to pass both re-examinations, an then the applicant will be required to submit a new
10		application with fee in accordance with these regulations this chapter in order to take an
11		examination. Applications for reexamination must be received in the Department of
12		Commerce at least 60 days prior to a scheduled examination in order to be eligible to sit for
13		that examination.
14		
15	<u>4.</u>	Applications for examination and reexamination must be received by the Department of
16		Professional and Occupational Regulation at least 60 days prior to a scheduled examination
17		in order to be eligible to sit for that examination.
18		
19	18 VAC 1	60-20-100. Application. (Repealed)
20		
21		ny person seeking licensure by reciprocity or by education, experience, and examination shall
22		ully completed application with the appropriate fee(s) attached. Incomplete applications will
23		ed to the applicant. Application for licensure by examination must be received in the
24	-	at of Professional and Occupational Regulation 60 days prior to a scheduled examination in
25	order to be	eligible to sit for that examination.
26	-	
27		Il applications of candidates will be reviewed by the Department of Professional and
28	1	hal Regulation staff to determine eligibility for licensure and examination within 50 days of
29	-	he offices of the Department of Professional and Occupational Regulation. Any applicant may
30		initial review, in writing, to the board within 60 days of the staff's determination. No applicant
31	will be app	proved for licensure unless he meets all of the requirements of Part II of this chapter.
32	a 1	
33		pplicants who have been found ineligible to sit for an examination may request further
34		on by submitting a letter to the board with the necessary evidence of additional qualifications,
35		r experience. No additional fee will be required, provided all requirements for licensing are
36	met within	two years from the date of original application.
37		
38	[Moved to	0 18 VAC 160-20-76]
39	10 174 0 1	K0 20 102 Econ
40	<u>18 VAC I</u>	<u>60-20-102. Fees</u>

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 21 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		
2	A.	All fees are nonrefundable.
3		
4	B.	The date of receipt of the fee by the board is the date which shall be used to determine whether
5		the fee is timely received.
6		
7	<u>C.</u>	The following fees shall apply:
8		
9		Application Fee \$85
10		Renewal Fee \$45
11		Late Renewal Fee, [Additional] \$25
12		Re-examination Fee \$75
13		Bad Check or Other Instrument Penalty\$25
14		
15	<u>D</u> .	A fee of \$25 will be charged, in addition to the fees established in this section, for submitting a
16		check to the board which is dishonored by the institution upon which it is drawn.
17		
18	18 VA	C 160-20-104. Maintenance of License.
19		
20	1.	[Notice in writing shall be given to the board in the event of any change of the licensee's name or
21		address. Such notice shall be received by the board within 30 days of the change of the name
22		or address. The licensee shall notify the board in writing within 30 days of any change of name or
23		address].
24		
25	2.	All licensees shall operate under the name in which the license is issued.
26		
27		

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 22 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		<u>PART III.</u>
2		
3		RENEWAL.
4		
5		
б	<u>18 VA</u>	<u>C 160-20-106. Renewal</u> .
7		
8	A.	Licenses for waterworks operators shall expire on the last day of February of each odd-
9		numbered year. Licenses for wastewater works operators shall expire on the last day of
10		February of each even-numbered year.
11	_	
12	В.	The Department of Professional and Occupational Regulation shall mail a renewal notice to the
13		licensee outlining the procedures for renewal. Renewal notices shall be mailed to the licensee at
14		the last known address of record. Failure to receive written notice shall not relieve the licensee
15		of the obligation to renew and pay the required fee outlined in 18 VAC 160-20-102.
16	a	
17	C.	Each licensee applying for renewal shall return the renewal notice, fee, and, in the case of
18		waterworks licensees only, a statement that the applicant for license renewal has met the CPE
19		requirement established in 18 VAC 160-20-109 of this chapter prior to the expiration date
20		shown on the license. If the licensee fails to receive the renewal notice, a copy of the expired
21		license may be submitted in place of the renewal notice along with the required fee and, in the
22		case of waterworks licensees only, a statement that the [licensee has met] CPE requirement in
23		18 VAC 160-20-109 of this chapter [has been met].
24	P	
25	D.	The date on which the renewal fee and any required forms are actually received by the board or
26		its agent shall determine whether an additional fee is due.
27	г	
28	E.	If the requirements of subsection C of this section are met more than 30 days but less than 12
29		months after the expiration date on the license, a late penalty fee shall be required as established
30		in 18 VAC 160-20-102. The date on which the renewal application, any required
31		documentation and the required fees are actually received by the board or its agent shall determine whether the licensee is eligible for renewal and whether an additional fee is due.
32		determine whether the licensee is engible for renewal and whether an additional fee is due.
33	Б	Any individual who fails to many his license within 12 months after the expiration date printed
34	F.	Any individual who fails to renew his license within 12 months after the expiration date printed on the license shall apply for a pay license by avamination in accordance with Part II of this
35 26		on the license shall apply for a new license by examination in accordance with Part II of this chapter. Such individual shall be deemed to be aligible to sit for the examination for the same
36		chapter. Such individual shall be deemed to be eligible to sit for the examination for the same
37		category and class of license as the expired license.
38	C	The board may dony renewal of a ligence for the same reasons as it may refuse initial ligencure
39	G.	The board may deny renewal of a license for the same reasons as it may refuse initial licensure or discipling a licensea
40		or discipline a licensee.

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 23 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		
2	18 VA	C 160-20-109. Waterworks operator continuing profession education (CPE).
3		
4	A.	Effective with the February 2003 license renewal cycle, each licensed waterworks operator
5		shall have completed the following number of CPE contact hours required for his class of
6		license:
7		
8 9		1. <u>Class I, II, and III operators shall obtain a minimum of 20 contact hours during each license</u> renewal cycle.
10		
11		2. Class IV operators shall obtain a minimum of 16 contact hours during each license renewal
12		cycle.
13		
14		3. <u>Class V operators shall obtain a minimum of eight contact hours during each license renewal</u>
15		cycle.
16		
17		4. <u>Class VI operators shall obtain a minimum of four contact hours during each license renewal</u>
18		<u>cycle.</u>
19		
20		CPE provisions do not apply for the renewal of licenses that were held for less than two years
21		on the date of expiration.
22		
23	B.	The subject matter addressed during CPE contact hours shall be limited to the content areas
24		covered by the board's examination.
25		
26	C.	Any course approved by the board for substitution as training credits (TC) or formal education
27		semester hours, as provided for in section 18 VAC 160-20-160, shall also be acceptable on an
28		hour-for-hour basis for CPE contact hours. One semester hour of college credit shall equal 15
29		CPE contact hours and one quarter hour of college credit shall equal 10 CPE credit hours.
30		
31	D.	
32		specified in subsection A of this section:
33		
34		1. Evidence of completion of a structured training activity which shall consist of the name,
35		address and telephone number of the sponsor;
36		
37		2. <u>The date(s) the applicant participated in the training;</u>
38		
39		3. <u>Descriptive material of the subject matter presented; and</u>
40		

DEPT. OF PROFESSIONAL AND OCCUPATIONAL REGULATION 24 OF 35 BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS

1		4. <u>A statement from the sponsor verifying the number of hours completed.</u>
2	Б	Each licenses shall maintain avidence of the estisfactory completion of CDE for a newiod of at
3	E.	Each licensee shall maintain evidence of the satisfactory completion of CPE for a period of at least one year following the end of the license renewal cycle for which the CPE was taken.
4		Such documentation shall be in the form required by subsection D of this section and shall be
5 6		provided to the board or its duly authorized agents upon request.
7		provided to the board of its dury autionzed agents upon request.
8	F.	The licensee shall not [take receive CPE credit for] the same training course or structured
9		training activity more than once during a single license renewal cycle to meet the CPE
10		requirement unless the same training course or structured training activity is an annual
11		requirement established by Virginia or federal regulations.
12		
13	G.	The licensee may [take receive CPE credit for] a training course or structured training activity
14		which has been mandated by Virginia or federal regulation towards fulfilling the CPE
15		requirement.
16		
17	H.	The licensee may petition the board for additional time to meet the CPE requirement. However,
18		CPE hours earned during a license renewal cycle to satisfy the CPE requirement of the
19		preceeding license renewal cycle shall be valid only for that preceeding license renewal cycle.
20		
21		DA DT HI STANDADDS OF DDA CTICE
22		PART III. STANDARDS OF PRACTICE
22 23	<u>18 VA</u>	
22 23 24	18 VA	PART III. STANDARDS OF PRACTICE C 160-20-110. Discipline. (Repealed)
22 23 24 25		C 160-20-110. Discipline. (Repealed)
22 23 24	A	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or
22 23 24 25 26	A	C 160-20-110. Discipline. (Repealed)
22 23 24 25 26 27	A. both, if	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or
22 23 24 25 26 27 28	A. both, if	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that:
22 23 24 25 26 27 28 29	A. both, if —1.	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that:
22 23 24 25 26 27 28 29 30	A. both, if 	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or
22 23 24 25 26 27 28 29 30 31	A. both, if 	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material
22 23 24 25 26 27 28 29 30 31 32	A. both, if 1. 2. misrep. 3.	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material resentation in the course of performing his operating duties; or The licensed operator has not demonstrated reasonable care, judgment or application of his
22 23 24 25 26 27 28 29 30 31 32 33	A. both, if 1. 2. misrep. 3.	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material resentation in the course of performing his operating duties; or
22 23 24 25 26 27 28 29 30 31 32 33 34	A. both, if — 1. <u>2.</u> misrep — 3. knowle	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material resentation in the course of performing his operating duties; or The licensed operator has not demonstrated reasonable care, judgment or application of his dge and ability in the performance of his operating duties; or
22 23 24 25 26 27 28 29 30 31 32 31 32 33 34 35	A. both, if 1. 2. misrep 3. knowle	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material- resentation in the course of performing his operating duties; or The licensed operator has not demonstrated reasonable care, judgment or application of his dge and ability in the performance of his operating duties; or The licensed operator violates or induces another person to violate any provisions of Chapters
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	A. both, if 1. 2. misrep 3. knowle	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material resentation in the course of performing his operating duties; or The licensed operator has not demonstrated reasonable care, judgment or application of his dge and ability in the performance of his operating duties; or
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	A. both, if — 1. <u>2.</u> misrep — 3. knowle 4. 1, 2, 3,	C 160-20-110. Discipline. (Repealed) The Board, in its discretion, may fine any licensee, or may suspend or revoke a license, either or it finds that: The license was obtained or renewed through fraud or misrepresentation; or The licensed operator has been found guilty by the board, or by a court of any material- resentation in the course of performing his operating duties; or The licensed operator has not demonstrated reasonable care, judgment or application of his dge and ability in the performance of his operating duties; or The licensed operator violates or induces another person to violate any provisions of Chapters

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Final Regulation adopted 12/21/2000

1 reasons specified in subsection A of this section.

2 [Moved to 18 VAC 160-20-140]

3

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<u>PART IV.</u>
CLASSIFICATION REQUIREMENTS.
<u>18 VAC 160-20-120. Waterworks</u>
A. <u>A Class VI waterworks licensee may operate any waterworks as follows:</u>
1. <u>A waterworks providing no treatment and serving fewer than 400 persons; or</u>
2. <u>A waterworks classified by the Virginia Department of Health as a Class VI waterworks.</u>
B. <u>A Class V waterworks licensee may operate any waterworks as follows:</u>
1. <u>A waterworks serving 400 or more persons which (i) provides no treatment; or (ii) employs</u> hypochlorination for disinfection; or
2. <u>A waterworks classified by the Virginia Department of Health as either a Class V or Class</u> <u>VI waterworks.</u>
C. A Class IV waterworks licensee may operate any waterworks as follows:
 A waterworks serving fewer than 5,000 persons or having a design hydraulic capacity of less than 0.5 MGD, employing one or more of the following (i) disinfection other than with hypochlorination, (ii) corrosion control, (iii) iron and manganese removal, (iv) ion exchange, (v) membrane technology without pretreatment, (vi) slow sand filtration, (vii) aeration, (viii) rechlorination other than with hypochlorination, or [(iv)] [ix] activated carbon contactors; or
2. A waterworks classified by the Virginia Department of Health as either a Class IV, V, or VI waterworks.
D. <u>A Class III waterworks licensee may operate any waterworks as follows:</u>
 A waterworks serving fewer than 5,000 persons or having a design capacity less than 0.5 MGD, employing chemical coagulation or lime softening in combination with one or more of the following (i) sedimentation, (ii) rapid sand filtration with a filtration rate of 2 gpm/square foot or less, (iii) fluoridation, (iv) disinfection, (v) aeration, (vi) corrosion control, or (vii) membrane technologies; or

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1		<u>2.</u>	A waterworks serving 5,000 or more persons or having a design hydraulic capacity of 0.5
2			MGD, employing one or more of the following; (i) disinfection other than with
3			hypochlorination, (ii) corrosion control, (iii) iron and manganese removal, (iv) ion exchange,
4			(v) membrane technology without pretreatment, (vi) slow sand filtration, (vii) aeration, (viii)
5			rechlorination other than with hypochlorination, or (ix) activated carbon contactors; or
6			
7		<u>3.</u>	A waterworks employing (i) membrane technology requiring pretreatment consisting of pH
8			adjustment; or (ii) diatomaceous earth filtration, coupled with aeration, corrosion control,
9			disinfection, or fluoridation; or
10			
11		<u>4.</u>	A waterworks employing fluoridation which is not under a higher classification; or
12			
13		<u>5.</u>	A waterworks classified by the Virginia Department of Health as either a Class III, IV, V or
14			VI waterworks.
15			
16	E.	<u>A (</u>	Class II waterworks licensee may operate any waterworks as follows:
17			
18		1.	A waterworks serving 5,000 or more persons but fewer than 50,000 persons or having a
19			design hydraulic capacity of 0.5 MGD or more but less that 5.0 MGD [, whichever falls
20			within the range,] employing chemical coagulation or lime softening in combination with one
21			or more of the following; (i) sedimentation, (ii) rapid sand filtration, (iii) fluoridation, (iv)
22			disinfection, (v) aeration, (vi) corrosion control, or (vii) membrane technologies; or
23			
24		2.	A waterworks serving fewer than 50,000 persons or having a design hydraulic capacity of
25			less than 5.0 MGD which employs chemical coagulation or lime softening coupled with
26			multimedia granular filtration or granular filtration at rates above 2.0 gpm/square foot (high
27			rate filtration) in combination with one or more of the following: (i) sedimentation, (ii)
28			fluoridation, (iii) disinfection, (iv) aeration, or (v) corrosion control; or
29			
30		3.	A waterworks employing biological activated carbon contactors or membrane technology
31			requiring pretreatment other than pH adjustment; or
32			
33		4.	A. Waterworks classified by the Virginia Department of Health as either a Class II, III, IV,
34			V or VI waterworks.
35			
36	F.	<u>A (</u>	Class I waterworks licensee may operate any waterworks [listed in subsections A through E
37		of t	his section].
38			
39	G.	The	e term membrane technologies includes (i) electrical dialysis reversal, (ii) reverse osmosis, (iii)
40		<u>ultr</u>	a filtration, (iv) micro filtration, and (v) nano filtration.

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1 2	<u>18 VA</u>	<i>C</i> 1	60-20-130. Wastewater works.
3			
4	A.	<u>A</u> (Class IV wastewater works licensee may operate any wastewater works as follows:
5 6 7 8 9 10		1.	<u>A wastewater works employing natural treatment methods (i.e., those not utilizing aerated or mixed flows and not using electrical or outside energy sources to accomplish treatment)</u> with a design hydraulic capacity greater than 0.4 MGD but equal to or less than 1.0 MGD; <u>or</u>
10 11 12 13		2.	A wastewater works classified by the Virginia Department of Health or the Virginia Department of Environmental Quality as a Class IV wastewater works.
14	B.	<u>A</u>	Class III wastewater works licensee may operate any wastewater works as follows:
15 16 17 18 19 20		1.	<u>A wastewater works using biological treatment methods consisting of but not limited to (i)</u> suspended growth reactors, (ii) aerated lagoons, (iii) constructed wetlands, (iv) biological filters or other attached growth contactors, (v) processes utilizing biological nutrient control, or (vi) processes utilizing land application having a design hydraulic capacity greater than 0.04 MGD, but equal to or less than 0.5 MGD; or
21 22 23 24 25 26		2.	<u>A wastewater works using advanced waste treatment methods consisting of but not limited</u> to (i) ammonia stripping, (ii) breakpoint chlorination, (iii) carbon adsorption, (iv) chemical coagulation, (v) flocculation, (vi) precipitation, (vii) filtration, or (viii) demineralization (ion exchange, reverse osmosis or electrodialysis) having a design hydraulic capacity greater than 0.04 MGD, but equal to or less than 0.5 MGD; or
27 28 29 30 31		3.	A wastewater works using combinations of biological and advanced waste treatment methods having a design hydraulic capacity greater than 0.04 MGD, but equal to or less than 0.1 MGD; or
32 33 34		4.	A wastewater works using natural treatment methods (i.e., those not using aerated or mixed flows and not using electrical or outside energy sources to accomplish treatment) with a design hydraulic capacity greater than 1.0 MGD; or
35 36 37		5.	<u>A wastewater works classified by the Virginia Department of Health or the Virginia</u> Department of Environmental Quality as either a Class III or IV wastewater works.
38 39 40	C.	<u>A</u>	Class II wastewater works licensee may operate any wastewater works as follows:

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1	1.	A wastewater works using biological treatment methods consisting of but not limited to (i)
2		suspended growth reactors, (ii) aerated lagoons, (iii) constructed wetlands, (iv) biological
3		filters or other attached growth contactors, (v) processes utilizing biological nutrient control,
4		or (vi) processes utilizing land application having a design hydraulic capacity greater than 0.5
5		MGD, but equal to or less than 5.0 MGD; or
6		
7	2.	A wastewater works using advanced waste treatment methods consisting of but not limited
8		to (i) ammonia stripping, (ii) breakpoint chlorination, (iii) carbon adsorption, (iv) chemical
9		coagulation, (v) flocculation, (vi) precipitation, (vii) filtration, or (viii) demineralization (ion
10		exchange, reverse osmosis or electrodialysis) having a design hydraulic capacity greater than
11		0.5 MGD, but equal to or less than 5.0 MGD; or
12		
13	3.	A wastewater works using combinations of biological and advanced waste treatment
14		methods, having a design hydraulic capacity greater than 0.1 MGD, but equal to or less than
15		<u>2.5 MGD; or</u>
16		
17	4.	A wastewater works classified by the Department of Health or the Department of
18		Environmental Quality as either a class II, III or IV wastewater works.
19		
20		Class I wastewater works licensee may operate any wastewater works [listed in
21	<u>sut</u>	esections A through C of this section].
22		
23		

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1	<u>PART V.</u>
2	
3	STANDARDS OF PRACTICE
4	
5	
6	<u>18 VAC 160-20-140. Discipline.</u>
7	
8	A The board [may fine any licensee and/or revoke or suspend any license, in accordance with the
9	provisions of the Administrative Process Act, when a licensee has been found to have violated or
10	cooperated with others in violating any of the provisions of Chapter 23 of Title 54.1, of the Code
11	of Virginia, or any regulations of the board including the following grounds of discipline has the
12	power to discipline and fine any licensee and to suspend or revoke or refuse to renew or
13	reinstate any license as well as the power to deny any application for a license under the
14	provisions of Chapter 23 of Title 54.1 of the Code of Virginia and this chapter for any of the
15	following]:
16	
17	1. [The license was obtained Obtaining] or [renewed renewing a license] through
18	[fraud fraudulent means] or misrepresentation [; or .]
19	
20	2. [<u>Any conviction Having been convicted or found guilty</u>] by a court in any jurisdiction
21	of any felony or of any misdemeanor involving lying, cheating or stealing, or [of any
22	material misrepresentation for activities carried out] while engaged in waterworks
23	or wastewater works activities, there being no appeal pending therefrom or the
24	time for appeal having elapsed]. Any plea of nolo contendere shall be considered a
25	conviction for purposes of this subsection. A certified copy of a final order, decree
26	or case decision by a court or regulatory agency with the lawful authority to issue
27	such order, decree or case decision shall be prima facia evidence of such conviction or discipline [; or . The record of conviction certified or authenticated in such form
28 29	as to be admissible in evidence under the laws of the jurisdiction where convicted
30	shall be admissible as prima facia evidence of such guilt.]
31	shar be demissible as prind facia evidence of such guit.]
32	3. [The licensee did not demonstrate Not demonstrating] reasonable care, judgment, or
33	application of the required knowledge, skill and ability in the performance of the
34	operating duties [; or .]
35	
36	4. [The licensee violated or induced Violating or inducing] another person to violate any
37	provisions of Chapters 1, 2, 3 or 23 of Title 54.1 of the Code of Virginia, or [of] any
38	provision of this chapter.
39	••
40	

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1	5.	Having been found guilty by the board, an administrative body or by a court of any
2		[material misrepresentation activity] in the course of performing his operating duties
3		[that resulted in the harm or the threat of harm to human health or the environment].
4		
5	6.	Failing to inform the board in writing within 30 days of pleading guilty or nolo
6		contendere or being convicted or found guilty [, regardless of adjudication,] of any
7		felony which resulted in the [significant] harm or the [imminent and substantial] threat
8		of harm to human health or the environment. [Failing to inform the board in writing
9		within 30 days of pleading guilty or nolo contendere or being convicted of or found
10		guilty, regardless of adjudication, of any felony or of any misdemeanor for activities
11		carried out while engaged in waterworks or wastewater works activities or involving
12		lying, cheating or stealing.]
13		
14	7.	[Gross negligence], or a continued pattern of incompetence, in the
15		practice as a waterworks or wastewater works operator.
16		
17	[B. The t	board may refuse to grant a license to or renew the license of any person for the same
18	reasons as	<u>it may discipline a licensee.]</u>
19		
20		
21		

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1		APPENDIX A. PART VI.	
2			
3	APPROVAL OF SPECIALIZED TRAINING.		
4			
5			
6	<u>18 VAC I</u>	<i>60-20-160</i> . Approval of training.	
7	a		
8 9	-	lized waterworks- <u>Waterworks</u> and wastewater works operator training <u>for all licenses</u> , may ted for some of the experience required for Class III, Class II and Class I licenses, subject to	
10	the limitation	ons in this appendix section. Training courses that may be substituted for required experience	
11	must be a	pproved by the board except prior to the training activity in accordance with the following	
12	procedure:	those provided by federal or state agencies[,] institutions, schools and universities approved	
13	by the Sta	te Council of Higher Education for Virginia, for which conti[n]uing education units are	
14	awarded.	Training courses requiring board approval shall be approved by the board prior to	
15	<u>commencia</u>	ng in accordance with the following:	
16			
17	A. Tra	aining activities courses for which experience credit may be granted must be conducted in	
18	gei	neral conformance with the guidelines of the Council on the Continuing Education Unit	
19		ernational Association for Continuing Education and Training[(Association)]. The board	
20		erves the right to waive any of the requirements of the council's Association's guidelines on a	
21	cas	se-by-case basis. Only classroom, laboratory and field trip contact time will be used to	
22	<u>CO</u>	mpute training credits. No credit will be given for breaks, meals, or receptions.	
23			
24	1.		
25		identifiable organization with a mission statement outlining its functions, structure, process	
26		and philosophy, and that has a staff of one or more persons with the authority to administer	
27		and coordinate a training credit (TC) program.	
28			
29	2.	TC records. The board will only approve training offered by a sponsor who maintains TC	
30		records for all participants for a minimum of 20 seven years, and who has a written policy	
31		on retention and release of TC records.	
32			
33	3.	Instructors. The board will only approve training conducted by personnel who have	
34		demonstrated competence in the subject being taught, an understanding of the learning	
35		objective, a knowledge of the learning process to be used, and a proven ability to	
36		communicate.	
37			
38	4.	Objectives. The board will only approve courses that have a series of stated objectives that	
39		are consistent with the job requirements of waterworks and wastewater works operators.	
40		The training course content must be consistent with those objectives.	

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1			
2		5.	Course completion requirements. For successful completion of a training program course,
3			participants must attend 90% or more of the class contact time and must demonstrate their
4			learning through written examinations, completion of a project, self-assessment, oral
5			examination, or other assessment technique.
6			
7	B.		e board shall consider the following information, to be submitted by the course sponsor or
8			ructor on forms provided by the board, at least 45 days prior to the scheduled training
9		acti	vity <u>course</u> :
10			
11		1.	Course information.
12			
13			a. Course title
14			
15			b. Planned audience
16			Norma Company
17			c. Name of sponsor
18			d Nama address phone number of contact person
19 20			d. Name, address, phone number of contact person
20 21			e. Scheduled presentation dates
22			c. Scheduled presentation dates
23			f. Detailed course schedule, hour-by-hour
24			n Domioù couise seneaue, nour og nour
25			g. List of planned breaks
26			
27			h. Scheduled presentation location
28			
29			i. Relevancy of course to waterworks or wastewater works operator licensing
30			
31		2.	Instructor qualifications.
32			
33			a. Name of instructor
34			
35			b. Title, employer
36			
37			c. Summary of qualifications to teach this course
38			
39		3.	Training materials.
40			

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1	a. Course objectives. A listing of the course objectives stated in the terms of the skills
2	knowledge, or attitude the participant will be able to demonstrate as a result of the
3	training.
4	
5	b. Course outline. A detailed outline showing the planned activities that will occur during
б	the training program course, including major topics, planned presentation sequence,
7	laboratory and field activities, audio-visual presentation, and other major activities.
8	
9	c. Course reference materials. A list of the name, publisher and publication date for
10	commercially available publications. For reference materials developed by the course
11	sponsor or available exclusively through the course, a copy of the reference.
12	
13	d. Audio-visual support materials. A listing of any commercially available audio-visual
14	support material that will be used in the program. A brief description of any sponsor o
15	instructor generated audio-visual material that will be used.
16	
17	e. Handouts. Identification of all commercially available handout materials that will be
18	used; as well as copies of all other planned handouts.
19	
20	4. Determination of successful completion. A description of the means that will be used to
21	determine the successful completion of the training program by individual attendees, such a
22	examinations, projects, personal evaluations by the instructor, or other recognized
23	evaluation techniques assess the learning of each participant to determine successfu
24	completion of the training program, such as examinations, projects, personal evaluations by
25	the instructor, or other recognized evaluation techniques.
26	
27	B. Substitution of training for experience will be approved by the board only for applicants
28	whose names appear ona roster of those participants who successfully completed the
29	course, including their names and social security numbers. Submitted to the board by the
30	sponsor, and who submit a copy of an appropriate certificate identifying the subject
31	matter of the course and the TC value, provided to the participant by the sponsor.
32	
33	D.C. Recurring training programs. If there are plans to present the same course of instruction
34	routinely at multiple locations with only minor modifications and changes, the board may
35	approve the overall program rather than individual presentations if so requested by the sponsor.
36	
37	1. The board shall consider all of the information listed above except those items related to
38	specific offerings of the course.
39	
40	2. Board approval may be granted for a specific period of time or for an indefinite period.

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1		
2	3.	Board approval will apply only to those specific offerings appearing on listings provided to
3		the board prior to conducting the training. The listing shall contain for each offering the
4		dates, locations, and instructors. certified by the sponsoring organization as having been
5		conducted by instructors meeting the established criteria and in accordance with the board
6		approved course outlines and objectives.
7		
8	4.	To maintain approval of the program, changes made to the program since its approval must
9		be submitted to the board.
10		
11		
12		
13	I certify that	at this regulation is full, true, and correctly dated.
14		
15		
16		(Signature of Certifying Official)
17		David E. Dick, Assistant Director
18		Department of Professional and Occupational Regulation
19		
20		Date: December 21, 2000
21		
22		
23		