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Office

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To: Lauren Reid, Policy Advisor
House Majority Caucus

From: Joe McDaniels, Attorney *JM*

Date: October 16, 2019

Subject: EPA licenses

Introduction

This memorandum compares licensing requirements applicable to certain environmental professionals in Ohio, Illinois, Indiana, and Pennsylvania.

Ohio's Environmental Protection Agency (OEPA) exercises general supervision over the treatment and disposal of sewage and industrial wastes, as well as the operation of water supply works. It does so, in part, by certifying the following: five types of public water system professional operators (A, I, II, III, and IV certification), two types of water distribution professional operators (I and II certification), five types of treatment works professional operators (A, I, II, III, and IV certification), and two types of sewage system professional operators (I and II certification).

OEPA also certifies professionals under the Voluntary Action Program. The Voluntary Action Program allows a person to investigate possible environmental contamination and remediate it, if necessary. OEPA-certified professionals are responsible for verifying that properties are cleaned pursuant to the Program's requirements and may issue no-further-action letters. Illinois, Indiana, and Pennsylvania do not certify professionals in this manner.

Additionally, OEPA has the authority to certify water quality professionals who prepare Section 401 Water Quality Certifications and engineers who conduct compliance reviews under environmental laws. OEPA has not yet formally adopted rules establishing either program. Thus, comparisons with other states are not possible regarding these two certifications.

Finally, the memorandum compares the licensing requirements applicable to professionals implementing requirements associated with motor vehicle inspection and maintenance programs.

Drinking water and wastewater operator certification

Below is a list of Ohio licenses pertaining to drinking water and wastewater, followed by lists of licenses issued by Indiana, Illinois, and Pennsylvania. Each state licensing scheme is different. Therefore, it is difficult to determine how the licenses from each state align with one another. As a result, the charts are organized by state rather than by license.

Ohio

Drinking Water and Wastewater Operator Certification ¹								
Type of certification	Certification required?	Education or training	Experience	Exam	Continuing education	Initial certification fee	Certification duration	Renewal fee
Public Water System Professional Operator A Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 520-1,040 hours of operating experience, depending on education. 1-3 years of working experience, depending on education.	Yes (\$80 fee)	8 hours	\$45	2 years	\$25
Public Water System Professional Operator I Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 1 year of working experience.	Yes (\$105 fee)	12 hours	\$45	2 years	\$35

¹ R.C. 3745.11, 6109.04, and 6111.46; Ohio Administrative Code 3745-7-06, 3745-7-15, and 3745-7-20.

Drinking Water and Wastewater Operator Certification ¹								
Type of certification	Certification required?	Education or training	Experience	Exam	Continuing education	Initial certification fee	Certification duration	Renewal fee
Public Water System Professional Operator II Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$120 fee)	24 hours	\$45	2 years	\$45
Public Water System Professional Operator III Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 5 years of operating experience.	Yes (\$130 fee)	24 hours	\$45	2 years	\$55
Public Water System Professional Operator IV Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$145 fee)	24 hours	\$45	2 years	\$65
Water Distribution Professional Operator I Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 1 year of operating experience.	Yes (\$105 fee)	12 hours	\$45	2 years	\$35

Drinking Water and Wastewater Operator Certification ¹								
Type of certification	Certification required?	Education or training	Experience	Exam	Continuing education	Initial certification fee	Certification duration	Renewal fee
Water Distribution Professional Operator II Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$120 fee)	24 contact hours	\$45	2 years	\$45
Treatment Works Professional Operator A Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 520-1,040 hours of operating experience, depending on education. 1-3 years of working experience, depending on education.	Yes (\$80 fee)	8 hours	\$45	2 years	\$25
Treatment Works Professional Operator I Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 1 year of operating experience.	Yes (\$105 fee)	12 hours	\$45	2 years	\$35

Drinking Water and Wastewater Operator Certification ¹								
Type of certification	Certification required?	Education or training	Experience	Exam	Continuing education	Initial certification fee	Certification duration	Renewal fee
Treatment Works Professional Operator II Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$120 fee)	24 hours	\$45	2 years	\$45
Treatment Works Professional Operator III Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 5 years of operating experience.	Yes (\$130 fee)	24 hours	\$45	2 years	\$55
Treatment Works Professional Operator IV Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$145 fee)	24 hours	\$45	2 years	\$65
Sewage System Professional Operator I Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 1 year of operating experience.	Yes (\$105 fee)	12 hours	\$45	2 years	\$35

Drinking Water and Wastewater Operator Certification ¹								
Type of certification	Certification required?	Education or training	Experience	Exam	Continuing education	Initial certification fee	Certification duration	Renewal fee
Sewage System Professional Operator II Certification	Yes	High school diploma or equivalent	Completion of the "OEPA Professional Operator Certification Training" course. 3 years of operating experience.	Yes (\$120 fee)	24 hours	\$45	2 years	\$45

Illinois

Drinking Water and Wastewater Operator Certification ²							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class A Drinking Water Operator Certification	High school education and literacy in English is required. Educational hours may be counted toward 5,340 total experience hour requirement.	5,340 total hours of study, training and hands-on experience in water supply operation or management of a Class A facility	Yes (\$10 exam fee)	30 hours every 3 years	\$30	3 years	\$10

² Title 35 of Illinois Administrative Code; see also "Illinois EPA Drinking Water Operator Certification" available at: https://www2.illinois.gov/epa/Documents/iepa/drinking-water/operator-certification/2018_01_opcert_20handout.pdf and "WASTEWATER OPERATOR CERTIFICATION and STUDY GUIDE" available at: <https://www2.illinois.gov/epa/Documents/iepa/water-quality/wastewater/publications/operator-certification-guide.pdf>.

Drinking Water and Wastewater Operator Certification ²							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class B Drinking Water Operator Certification	High school education and literacy in English is required. Educational hours may be counted toward 5,340 total experience hour requirement.	5,340 total hours of study, training and hands-on experience in water supply operation or management of a Class B facility	Yes (\$10 exam fee)	30 hours every 3 years	\$30	3 years	\$10
Class C Drinking Water Operator Certification	High school education and literacy in English is required. Educational hours may be counted toward 1,780 total experience hour requirement.	1,780 total hours of study, training and hands-on experience in water supply operation or management of a Class C facility	Yes (\$10 exam fee)	15 hours every 3 years	\$30	3 years	\$10
Class D Drinking Water Operator Certification	High school education and literacy in English is required. Educational hours may be counted toward 890 total experience hour requirement.	890 total hours of study, training and hands-on experience in water supply operation or management of a Class D facility	Yes (\$10 exam fee)	15 hours every 3 years	\$30	3 years	\$10
Class 4 Wastewater Operator	High school education and literacy in English required. Education may be counted toward experience requirement.	1 year of wastewater operator experience	Yes, no fee	15 hours every 3 years	N/A	3 years	N/A

Drinking Water and Wastewater Operator Certification ²							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class 3 Wastewater Operator	High school education and literacy in English required. Education may be counted toward experience requirement.	2 years of wastewater operator experience	Yes, no fee	15 hours every 3 years	N/A	3 years	N/A
Class 2 Wastewater Operator	High school education and literacy in English required. Education may be counted toward experience requirement.	4 years of wastewater operator experience	Yes, no fee	30 hours every 3 years	N/A	3 years	N/A
Class 1 Wastewater Operator	High school education and literacy in English required. Education may be counted toward experience requirement.	6 years of wastewater operator experience	Yes, no fee	30 hours every 3 years	N/A	3 years	N/A
Class K Wastewater Operator (facility specific)	High school education and literacy in English required	N/A	Yes, no fee	N/A	N/A	5 years	N/A
Class R Wastewater Operator — General (water remediation)	High school education and literacy in English required	N/A	Yes, no fee	N/A	N/A	5 years	N/A
Collection System Operator	High school education and literacy in English required. Education may be counted toward experience requirement.	1 year of collection system operating experience	Yes, no fee	N/A	N/A	N/A	N/A

Indiana

Drinking Water and Wastewater Operator Certification ³							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Operator-in-Training for Class WT3, WT4, or WT5 Water Treatment or Class DSL Water Distribution System	Must do certain tasks, including multiplication and division	N/A	Yes ⁴	N/A	\$30	N/A	Cannot be renewed
Class DSS (Distribution System Small) Water Distribution System Operator Certification	High school diploma or equivalent	Work experience in the field of water distribution	Yes	10 hours	\$30	3 years	\$30
Class DSM (Distribution System Medium) Water Distribution System Operator Certification	High school diploma or equivalent	1 or 2 years of acceptable work experience depending on level of class of water distribution system operation	Yes	15 hours	\$30	3 years	\$30
Class DSL (Distribution System Large) Water Distribution System Operator Certification	High school diploma or equivalent	1-5 years of acceptable work experience depending on level of class of water distribution system operation	Yes	15 hours	\$30	3 years	\$30

³ Title 327 Ind. Admin. Code. Indiana also has a Facility Specific Operator (FSO). An FSO may be given to systems that are NTNC, DSS, or WT1 small community systems with population of 100 or less. 327 Ind. Admin. Code 8-12-3.5 .

⁴ If a third party administers the exam, an applicant must pay a third-party exam fee. Ind. Code Ann. 13-18-11-4(c) (LexisNexis 2019).

Drinking Water and Wastewater Operator Certification ³							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class WT1 Water Treatment Plant Operator	High school diploma or equivalent	Minimum of 1 year of acceptable work experience	Yes	10 hours	\$30	3 years	\$30
Class WT2 Water Treatment Plant Operator	High school diploma or equivalent	Minimum of 1 or 2 years of acceptable work experience	Yes	15 hours	\$30	3 years	\$30
Class WT3 Water Treatment Plant Operator	High school diploma or equivalent plus college-level courses in specified areas	2 years of acceptable work experience	Yes	25 hours	\$30	3 years	\$30
Class WT4 Water Treatment Plant Operator	High school diploma or equivalent plus college-level courses in relevant areas	2 years of acceptable work experience	Yes	30 hours	\$30	3 years	\$30
Class WT5 Water Treatment Plant Operator	High school diploma or equivalent plus college-level courses in specified areas	3-5 years of acceptable work experience	Yes	30 hours	\$30	3 years	\$30
Class WT6 Water Treatment Plant Operator ⁵	Unclear (qualifications determined on a case-by-case basis)	Unclear (qualifications determined on a case-by-case basis)	Yes	30 hours	\$30	3 years	\$30

⁵ A WT6 is a certified operator qualified to operate a Class WT6 water treatment plant that requires operator qualifications determined by the Commissioner of the Indiana Department of Environmental Management on an individual plant basis in response to the specialized nature of the water treatment plant. 327 Ind. Admin. Code 8-12-3.2(b)(6) (LexisNexis 2019).

Drinking Water and Wastewater Operator Certification ³							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class I-SP (Stabilization Pond) Nonindustrial Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	6 months of acceptable work experience	Yes	5 hours	\$30	2 years	\$30
Class I Nonindustrial Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	1 year of acceptable work experience	Yes	10 hours	\$30	2 years	\$30
Class II Nonindustrial Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	3 years of acceptable work experience	Yes	10 hours	\$30	2 years	\$30
Class III Nonindustrial Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	3 years of acceptable work experience	Yes	20 hours	\$30	2 years	\$30
Class IV Nonindustrial Wastewater Treatment Operator	Applicable associate's or bachelor's degree	5 years of acceptable work experience	Yes	20 hours	\$30	2 years	\$30
Class A-SO Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	6 months of acceptable work experience	Yes	5 hours	\$30	2 years	\$30
Class A Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	1 year of acceptable work experience	Yes	10 hours	\$30	2 years	\$30
Class B Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	3 years of acceptable work experience	Yes	10 hours	\$30	2 years	\$30

Drinking Water and Wastewater Operator Certification ³							
Type of certification	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Class C Wastewater Treatment Operator	High school diploma or equivalent or experience exemption	3 years of acceptable work experience	Yes	20 hours	\$30	2 years	\$30
Class D Wastewater Treatment Operator	Applicable associate's or bachelor's degree	5 years of acceptable work experience	Yes	20 hours	\$30	2 years	\$30
Wastewater Treatment Apprentice for Class I-SP, I, II, III, or IV Nonindustrial Wastewater Treatment Operator or Class A-SO, B, C, or D Wastewater Treatment Operator	Ranges from high school diploma or equivalent (or experience exemption) to associate's or bachelor's degree	6 months to 5 years of acceptable work experience	Yes	5-20 hours	\$30	Up to 6 years	N/A

Pennsylvania

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Class A Drinking Water Certification	High school diploma or GED (or experience exemption)	1-4 years depending on education and experience	General water exam and at least 1 water technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60
Class B Drinking Water Certification	High school diploma or GED (or experience exemption)	6 months to 3 years depending on education and experience	General water exam and at least 1 water technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60
Class C Drinking Water Certification	High school diploma or GED (or experience exemption)	6 months to 2 years depending on education and experience	General water exam and at least 1 water technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60
Class D Drinking Water Certification	High school diploma or GED (or experience exemption)	6 months to 1 year depending on education and experience	General water exam ⁸	15 hours every 3 years (8 hours for first 3 years)	\$150	3 years	\$60
Class Dc Drinking Water Certification	High school diploma or GED (or experience exemption)	No experience to 6 months depending on education and experience	General water exam and groundwater source exam	9 hours every 3 years (4 hours for first 3 years)	\$100	3 years	\$60

⁶ 25 Pa. Code Chapter 302. <https://www.pacode.com/secure/data/025/chapter302/chap302toc.html>. Also see operator application form: https://www.pwea.org/docs/DEP_Certification_Exam_Registraton_Form_2017.pdf.

⁷ Each exam fee (general exams and specific exams) is \$35. 25 Pa. Code 302.202.

⁸ No specific subclassification exam required. 25 Pa. Code 302.1002.

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Class Dn Drinking Water Certification	High school diploma or GED (or experience exemption)	No experience to 6 months depending on education and experience	General water exam and groundwater source exam	6 hours every 3 years (3 hours for first 3 years)	\$100	3 years	\$60
Class E Drinking Water Certification	High school diploma or GED (or experience exemption)	No experience to 1 year depending on education and experience	Distribution systems exam	15 hours every 3 years (8 hours for first 3 years)	\$100	3 years	\$60
Subclassifications for Drinking Water Certification ⁹							
Subclassification 1: Conventional Filtration	See Class A through E above	See Class A through E above	Conventional filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 2: Direct Filtration	See Class A through E above	See Class A through E above	Direct filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 3: Diatomaceous Earth Filtration	See Class A through E above	See Class A through E above	Diatomaceous earth filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above

⁹ Any person with a Class A, B, or C Drinking Water Certification *must* have one or more of the following treatment subclassifications. Any person with a Class D or E Drinking Water Certification *may* have one or more of the following treatment subclassifications. 25 Pa. Code 302.901.

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Subclassification 4: Slow Sand Filtration	See Class A through E above	See Class A through E above	Slow sand filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 5: Cartridge or Bag Filtration	See Class A through E above	See Class A through E above	Cartridge or bag filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 6: Membrane Filtration	See Class A through E above	See Class A through E above	Membrane filtration specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 7: Corrosion Control and Sequestering	See Class A through E above	See Class A through E above	Corrosion control and sequestering specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 8: Chemical Addition	See Class A through E above	See Class A through E above	Chemical addition specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 9: Ion Exchange and Greensand	See Class A through E above	See Class A through E above	Ion exchange and greensand specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 10: Aeration and Activated Carbon Adsorption	See Class A through E above	See Class A through E above	Aeration and activated carbon adsorption specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Subclassification 11: Gaseous Chlorine Disinfection	See Class A through E above	See Class A through E above	Gaseous chlorine disinfection specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 12: NonGaseous Chemical Disinfection	See Class A through E above	See Class A through E above	Nongaseous chemical disinfection specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 13: Ultraviolet Disinfection	See Class A through E above	See Class A through E above	Ultraviolet disinfection specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 14: Ozonation	See Class A through E above	See Class A through E above	Ozonation specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Wastewater Certification							
Class A Wastewater Certification	High school diploma or GED (or experience exemption)	1-4 years depending on education and experience	General wastewater exam and at least 1 wastewater technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60
Class B Wastewater Certification	High school diploma or GED (or experience exemption)	6 months to 3 years depending on education and experience	General wastewater exam and at least 1 wastewater technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Class C Wastewater Certification	High school diploma or GED (or experience exemption)	6 months to 2 years depending on education and experience	General wastewater exam and at least 1 wastewater technology subclassification	30 hours every 3 years (15 hours for first 3 years)	\$150	3 years	\$60
Class D Wastewater Certification	High school diploma or GED (or experience exemption)	6 months to 1 year depending on education and experience	General wastewater exam and at least 1 wastewater technology subclassification	15 hours every 3 years (8 hours for first 3 years)	\$150	3 years	\$60
Class E Wastewater Certification	High school diploma or GED (or experience exemption)	6 months to 1 year depending on education and experience	Satellite collection system with pump station/single entity owner collection system exam	15 hours every 3 years (8 hours for first 3 years)	\$100	3 years	\$60
Subclassifications for Wastewater Certification ¹⁰							
Subclassification 1: Activated sludge	See Class A through E above	See Class A through E above	Activated sludge specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above

¹⁰ Any person with a Class A, B, C, or D Wastewater Certification *must* also have one or more of the following treatment subclassifications. 25 Pa. Code 302.902.

Drinking Water and Wastewater Operator Certification ⁶							
Type of certification	Education or training	Experience	Exam ⁷	Continuing education	Initial licensure fee	License duration	Renewal fee
Subclassification 2: Fixed Film Treatment	See Class A through E above	See Class A through E above	Fixed film treatment specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 3: Treatment Ponds and Lagoons	See Class A through E above	See Class A through E above	Treatment ponds and lagoons specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above
Subclassification 4: Single Entity Collection System	See Class A through E above	See Class A through E above	Laboratory supervisor specific exam	See Class A through E above	See Class A through E above	3 years	See Class A through E above

Voluntary Action Program Professional Certification

Voluntary Action Program Professional Certification									
State	Type of certification	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ¹¹	Certified professional under the Voluntary Action Program	Yes	A bachelor's degree	8 years of relevant professional experience. Initial certification training.	No	12 hours	\$2,500	1 year	\$2,000
Illinois ¹²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana ¹³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania ¹⁴	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹¹ R.C. 3746.04; Ohio Administrative Code 3745-300-03 and 3745-300-05.

¹² There is no comparable license in Illinois. While Licensed Professional Engineers and Geologists may prepare a certification, only the Illinois Environmental Protection Agency issues "no further remediation letters." 415 ILCS 5/57.10.

¹³ Indiana does not have an equivalent for a certified professional. The Indiana Department of Environmental Management performs the duties and responsibilities of a certified professional. Ind. Code Ann. 13-25-5-1 through 13-25-5-23 (LexisNexis 2019).

¹⁴ There is no comparable license in Pennsylvania. The Pennsylvania Department of Environmental Protection performs the duties and responsibilities of a certified professional. 35 P.S. § 6021.1 through 6021.7.

Water Quality Professional Certification

Certified Water Quality Professional Certification									
State	Type of certification	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio	Certified water quality professional (Section 401 Water Quality Certification)(rules are not formally adopted as of the completion date of this chart) ¹⁵	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Illinois	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹⁵ R.C. 3745.114 and 6111.030; Ohio Administrative Code 3745-32-02 and 3745-32-03. This is a recent certification and not all rules have been adopted.

Certified Engineers

Certified Water Quality Professional Certification									
State	Type of certification	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio	Certified engineers (rules are not formally adopted as of the completion date of this chart) ¹⁶	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Illinois	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹⁶ R.C. 3745.14.

Motor vehicle inspection and maintenance professionals

Enhanced Motor Vehicle Inspection and Maintenance Inspector Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio	Yes ¹⁷	Inspector training and certification that meets federal requirements ¹⁸	N/A	Yes ¹⁹	Recertification requires recertification course and test ²⁰	N/A ²¹	2 years ²²	N/A
Illinois	Yes ²³	Illinois Environmental Protection Agency (EPA)-approved training courses and certification ²⁴	N/A	Yes ²⁵	Refresher courses required every 2 years ²⁶	N/A ²⁷	2 years ²⁸	N/A

¹⁷ Ohio Administrative Code (O.A.C.) 3745-26-13 and 40 Code of Federal Regulations (C.F.R.) § 51.367(b).

¹⁸ O.A.C. 3745-26-13(B)(1) and (2) and 40 C.F.R. § 51.367.

¹⁹ O.A.C. 3745-26-13(B)(2) and 40 C.F.R. § 51.367(a)(3).

²⁰ O.A.C. 3745-26-13(B)(4).

²¹ No fees per Mike Riggelman, Manager of Mobile Sources, Division of Air Pollution Control, OEPA (telephone call, October 7, 2019).

²² O.A.C. 3745-26-13(B)(4).

²³ Per Tom Panici, Field Manager, Illinois EPA (telephone call, October 8, 2019).

²⁴ *Id.*

²⁵ *Id.*

²⁶ *Id.*

²⁷ *Id.*

²⁸ *Id.*

Enhanced Motor Vehicle Inspection and Maintenance Inspector Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Indiana	Yes (falls under motor vehicle emission inspector certification) ²⁹	Successful completion of department-approved training ³⁰	N/A	Yes ³¹	Refresher training and testing required prior to renewal ³²	N/A ³³	1 year ³⁴	N/A ³⁵
Pennsylvania	Yes (falls under emission inspector certification) ³⁶	Department-approved training course ³⁷	N/A	Yes ³⁸	Refresher training course and test required every 2 years ³⁹	\$59.99, plus any fees charged by the training school ⁴⁰	2 years ⁴¹	\$79.99 for Emission Inspector Recertification; \$59.99 for Northern Region Emissions Inspector Recertification ⁴²

²⁹ 326 Ind. Admin. Code 13-1.1-15(a) and 40 C.F.R. § 51.367(b).

³⁰ 326 Ind. Admin. Code 13-1.1-15(a) and (b).

³¹ 326 Ind. Admin. Code 13-1.1-15(a) and per Jennifer Sanders, Public Information Manager, Indiana Clean Air Car Check (telephone call, October 7, 2019).

³² 326 Ind. Admin. Code 13-1.1-15(b).

³³ Per Jennifer Sanders, Public Information Manager, Indiana Clean Air Car Check (telephone call, October 7, 2019).

³⁴ 326 Ind. Admin. Code 13-1.1-15(b).

³⁵ Per Jennifer Sanders, Public Information Manager, Indiana Clean Air Car Check (telephone call, October 7, 2019).

³⁶ 67 Pa. Code § 177.408(a).

³⁷ 67 Pa. Code § 177.408(c)(3)(i).

³⁸ 67 Pa. Code § 177.408(c)(3)(ii) and (iii).

³⁹ 67 Pa. Code § 177.408(c)(4).

⁴⁰ Pennsylvania Department of Transportation, FAQs: Emission Inspector Certification and Recertification, <http://www.drivecleanpa.state.pa.us/service/FAQs%20for%20Emissions%20Inspectors%20Certification%20Recertification%20process%202018.pdf>.

⁴¹ 67 Pa. Code § 177.408(c)(4).

⁴² Pennsylvania Department of Transportation, FAQs: Emission Inspector Certification and Recertification, <http://www.drivecleanpa.state.pa.us/service/FAQs%20for%20Emissions%20Inspectors%20Certification%20Recertification%20process%202018.pdf>.

Waiver Repair Technician								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio	Yes ⁴³	Completes OEPA training curriculum concerning the methods used in repairing vehicles failing emissions tests. Can be waived by OEPA Director ⁴⁴	Possesses Automotive Service Excellence (ASE) certification in Engine Performance, Electrical Systems, and Advanced Engine Performance. Can be waived by Director ⁴⁵	Yes, but can be waived by Director ⁴⁶	The Director may require training to maintain certification ⁴⁷	N/A ⁴⁸	2 years ⁴⁹	N/A ⁵⁰

⁴³ Ohio Administrative Code (O.A.C.) § 3745-26-16(A).

⁴⁴ O.A.C. § 3745-26-16(A)(2).

⁴⁵ O.A.C. § 3745-26-16(A)(4).

⁴⁶ O.A.C. § 3745-26-16(A)(2) and (3).

⁴⁷ O.A.C. § 3745-26-16(E).

⁴⁸ Per telephone conversation with Gretchen Graycraft, Legislative Liaison for OEPA, October 10, 2019.

⁴⁹ O.A.C. § 3745-26-16(B).

⁵⁰ Per telephone conversation with Gretchen Graycraft, Legislative Liaison for OEPA, October 10, 2019.

Waiver Repair Technician								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Illinois	No ⁵¹	N/A ⁵²	Professionally engaged in vehicle repair; Employed by a going concern whose purpose is vehicle repair; or Possessing a nationally recognized certification for emission related diagnosis and repair. ⁵³	N/A ⁵⁴	N/A ⁵⁵	N/A ⁵⁶	N/A ⁵⁷	N/A ⁵⁸

⁵¹ Per telephone conversation with Ken Beauvais, Program Executive Illinois Air Team, October 3, 2019.

⁵² *Id.*

⁵³ 35 Ill. Adm. Code 276.102.

⁵⁴ Per telephone conversation with Ken Beauvais, Program Executive Illinois Air Team, October 3, 2019.

⁵⁵ *Id.*

⁵⁶ *Id.*

⁵⁷ *Id.*

⁵⁸ *Id.*

Waiver Repair Technician								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Indiana	Yes ⁵⁹	Completes department approved emission and drivability program ⁶⁰	Certification as an ASE L1 (Advanced Engine Performance) technician ⁶¹	N/A ⁶²	Professionally engaged in emission/drivability repair and employed at a certified I/M emission repair facility. ⁶³ Must keep ASE L1 certification current to remain state certified. ⁶⁴	N/A ⁶⁵	N/A ⁶⁶	N/A ⁶⁷

⁵⁹ 326 IAC 13-1.1-10(a)(5).

⁶⁰ 326 IAC 13-1.1-10(a)(5)(B).

⁶¹ 326 IAC 13-1.1-10(a)(5)(A).

⁶² Per telephone conversation with Phil Doyle, IN Department of Environmental Management Official, October 10, 2019.

⁶³ 326 IAC 13-1.1-10(a)(5)(C) and (D).

⁶⁴ Per telephone conversation with Phil Doyle, IN Department of Environmental Management Official, October 10, 2019.

⁶⁵ *Id.*

⁶⁶ *Id.*

⁶⁷ *Id.*

Waiver Repair Technician								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania	Yes ⁶⁸	Complete an emission inspection course and On-board diagnostic system training. ⁶⁹ Must be an emission inspector prior to certification. ⁷⁰	18+ years old and have a valid driver's license ⁷¹	Required to obtain 80% passage rate on emission inspection course and On-board diagnostic system training test. And, if not automobile manufacturer or ASE certified regarding certifying emission control system evaluation and repair proficiency, then applicant must complete and pass an approved repair technician test. ⁷²	The PA Department of Transportation may authorize periodic supplemental training to maintain certification. ⁷³ Must keep emission inspector license current. ⁷⁴	N/A ⁷⁵	N/A ⁷⁶	N/A ⁷⁷

R-133-2197/rs

⁶⁸ 67 Pa. Code 177.275(a).⁶⁹ 67 Pa. Code 177.275(b)(3).⁷⁰ Per telephone conversation with Diana Chu, Manager for Vehicle Emissions Hotline contact center, October 10, 2019.⁷¹ 67 Pa. Code 177.275(b)(1) and (2).⁷² 67 Pa. Code 177.275(b)(3).⁷³ 67 Pa. Code 177.275(d).⁷⁴ Per telephone conversation with Diana Chu, Manager for Vehicle Emissions Hotline contact center, October 10, 2019.⁷⁵ *Id.*⁷⁶ *Id.*⁷⁷ *Id.*