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Wendy Zhan, Director

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Legislative Budget
Office

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To: Lauren Reid, Policy Advisor
House Majority Caucus

From: Joe McDaniels, Division Chief/Attorney *Jm*

Date: October 9, 2019

Subject: State survey of Department of Natural Resources licenses

You recently requested a state-by-state comparison of licensure requirements in Ohio, Illinois, Indiana, and Pennsylvania for the 23 occupations regulated by the Ohio Department of Natural Resources. Specifically, you asked for an indication of whether a license is required and, if so, a description of the associated: (1) education and training requirements, (2) experience requirements, (3) exam requirements, (4) continuing education requirements, (5) initial licensure fees, (6) duration of the license, and (7) renewal fees. The information you requested is summarized in the tables that follow.

If you have further questions about any of the information presented in this memorandum, please contact me by telephone at (614) 466-0278, or by email at joe.mcdaniels@lsc.ohio.gov.

Table 1. Mine Blaster/Surface Mine Blaster								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ¹	Yes	40 hours Ohio Department of Natural Resources-approved classroom training in blasting-related topics	At least 2 years field experience on a blasting crew	Yes (\$10 fee)	24 hours every 3 years	None, other than \$10 exam fee	3 years	No
Illinois ²	Yes	Training in blasting-related topics (training offered by Illinois Department of Natural Resources (IDNR) lasts 3 days)	At least 2 years field experience	Yes	Training in blasting-related topics (training offered by IDNR lasts 3 days)	\$150 (noncoal)/ \$0 (coal)	5 years	\$150 (noncoal)/ \$0 (coal)
Indiana ³	Yes	1 week Indiana Department of Natural Resources-approved training in blasting-related topics	At least 1 year field experience	Yes	15 hours every 3 years	No	3 years	No
Pennsylvania ⁴	Yes	16 hour class on explosives approved by the Department of Environmental Protection	At least 1 year field experience	Yes	8 hours every 3 years	\$50	3 years	\$30

¹ R.C. 1561.20; Ohio Administrative Code 1501:13-9-10.

² 225 Ill. Comp. Stat. 715/6.5; 62 Ill. Adm. Code, tit. 1, §§ 300.215 to 300.238 (noncoal blasters); 62 Ill. Adm. Code, tit. 1, §§ 1850.5 to 1850.15 (coal blasters). See also Michael D. Falter, "2019 Blasting Licensure and Certification Training and Examination," Ill. Dep't of Natural Resources, available at <https://www.dnr.illinois.gov/mines/EAD/Documents/RulesActsExamsTests/Aggregate%20Blaster%20Training%20and%20Exams.pdf>.

³ 312 Ind. Admin. Code 25-1-21 and 25-9-3 to 25-9-8. See also Institute of Makers of Explosives, "2018 Biennial State Explosives Credentialing & Fee Directory for Commercial High Explosives & Blasting Agents," January 1, 2018, available at https://www.ime.org/uploads/public/State%20Fee%20Directory-2018/Final%202018%20State%20Fee%20Directory_%20Jan%202018.pdf.

⁴ 25 Pa. Code §§ 201.10 to 210.17; Pa. Dep't of Environmental Protection, "Training and Certification for Blasters' License," <https://www.dep.pa.gov/Business/Land/Mining/BureauofDistrictMining/SurfaceBlasting/Training/Pages/default.aspx>. Pennsylvania's blaster's license is not necessary for certain coal miners to blast coal or rock, but such miners are required to be certified in a separate process with the applicable miners' examining board. See 52 Pa. Stat. §§ 70-207 and 70-234; 25 Pa. Code § 210.12.

Table 2. Mine Foreperson Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁵	Yes (certificate)	N/A	Yes, 2 years of experience working with or under the direction of a certified foreperson	Yes	N/A	\$25 (for the examination)	Until 5 consecutive years pass without employment in a surface mining operations	\$25 (if the Chief of the Division of Mineral Resources approves recertification after a license expires)
Illinois ⁶	Yes (certificate)	Graduation from an accredited engineering school may replace 2 of the 4 years of required practical mining experience	Yes, 4 years of practical mining experience	Yes, though graduation from an accredited engineering school may substitute for the examination	N/A	N/A	No expiration indicated in the law	N/A
Indiana ⁷	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania ⁸	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁵ R.C. 1514.47 and Ohio Administrative Code (O.A.C.) 1501:14-2-07.

⁶ 225 ILCS 710/19. These licenses do not align exactly. Ohio's license applies only to surface mining, while Illinois applies to both surface and "underground" mining. Additionally, they both apply to "mineral" mines, but define the term "minerals" differently, such that Illinois applies to a narrower set of mined products with some overlap. (R.C. 1514.01 and 225 ILCS 710/1.)

⁷ Indiana certifies mine forepersons, but only for underground coal mines (*See* IC 22-10-3-1), not for surface noncoal mines. Mine forepersons certified pursuant to Chapter 1514 of the Ohio Revised Code are certified for surface mines other than coal mines (R.C. 1514.01 and O.A.C. 1501:14-2-07(B)).

⁸ Pennsylvania's requirements for mine forepersons are set out in its administrative code. That code does not require a foreperson or related certification for surface noncoal mines (25 Pa. Code 209a). Mine forepersons certified pursuant to Chapter 1514 of the Ohio Revised Code are certified for surface mines other than coal mines (R.C. 1514.01 and O.A.C. 1501:14-2-07(B)).

Table 3. Qualified Person in Lieu of Certified Mine Foreperson								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁹	No	Training, as approved	1 year of experience working under a certified mine foreperson	No	Yes, as approved	No	Indefinite	No
Illinois	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
Pennsylvania	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁹ Ohio Administrative Code 1501:14-2-08(A).

Table 4. Commercial Nuisance Wild Animal Control Operator								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ¹⁰	Yes (certification required for employees working under the supervision of a licensed operator)	Education courses that are conducted in accordance with Ohio Department of Natural Resources Chief of the Division of Wildlife policies and procedures	No	Yes	No	\$40	1 year for license (owner) 3 years for certification (employee)	\$40
Illinois ¹¹	Yes (falls under Class A nuisance wildlife control permit)	If guns will be used, completion of a Hunter Safety Course administered by the Department of Natural Resources or proof of equivalent training	No	Yes	No	No	1 year	No
Indiana ¹²	Yes	No	No	Yes	16 hours every 4 years or must take and pass exam again	No	1 year	No
Pennsylvania ¹³	Yes (falls under nuisance wildlife control operator permit)	No	No (but must list experience on application)	Yes	No	\$50 (plus a \$25 examination fee)	1 year (if permit lapses for more than 2 years, must reapply as a new applicant and retake the exam)	\$50

¹⁰ R.C. 1531.40; Ohio Administrative Code 1501:31-15-03; Ohio Department of Natural Resources Division of Wildlife, *Specialty Licenses and Permits, Nuisance Wild Animal Control*, <http://wildlife.ohiodnr.gov/licenses-and-permits/specialty-licenses-permits>.

¹¹ 17 Ill. Admin. Code 525.20; Illinois Department of Natural Resources, *Class A (commercial) Nuisance Wildlife Control Permits*, <https://www.dnr.illinois.gov/conservation/wildlife/Documents/Class%20A%20Packet%20-%20electronic%20version.pdf>.

¹² 312 IAC 9-10-11; Indiana Department of Natural Resources, *Permits and Commercial Licenses*, <https://www.in.gov/dnr/fishwild/2371.htm>.

¹³ 58 Pa. Code 147.721, 147.723, and 147.724.

Table 5. Commercial Raptor Propagation Permit ¹⁴								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ¹⁵	Yes	No	No	No	No	\$50/year	3 years	\$50/year
Illinois ¹⁶	Yes (falls under captive propagation permit)	Yes (must hold a General or Master Class falconry permit)	No	No	No	\$200	5 years	\$200
Indiana ¹⁷	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania ¹⁸	Yes	Yes (must hold a federal commercial raptor propagation permit)	No	No	No	\$100	1 year	\$100

¹⁴ Federal law prohibits any person from possessing, purchasing, or selling raptors unless the person has a federal raptor propagation permit. ¹⁶ United States Code 703 *et seq*; 50 Code of Federal Regulations 21.30.

¹⁵ R.C. 1533.051; Ohio Administrative Code 1501:31-37-02.

¹⁶ 17 Ill. Admin. Code 1590.85.

¹⁷ 312 IAC 9-10-13.1(oo); Indiana Department of Natural Resources, *Permits and Commercial Licenses*, <https://www.in.gov/dnr/fishwild/2371.htm>.

¹⁸ 58 Pa. Code 147.204.

Table 6. Hunter Education Instructor								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ¹⁹	Yes	Complete the Ohio hunter education course, hunter education instructor course, and instruction on teaching techniques, teaching fundamentals, and other methods of instruction	N/A	Yes	Attend trainings and recertifications when required by Ohio Department of Natural Resources	No	Lifetime	N/A
Illinois ²⁰	Yes (falls under Safety Education Volunteer Instructors)	Complete 5 classroom sessions under the supervision of a master instructor and attend a course regarding policies and procedures for instructors	N/A	No, but the master instructor must evaluate and recommend the individual as an instructor	N/A	No	Lifetime	N/A
Indiana ²¹	No	N/A	Hunter education programs may be taught by a person approved to administer a hunter education program in the state	N/A	N/A	N/A	N/A	N/A

¹⁹ Ohio Administrative Code 1501:31-29-01.

²⁰ Illinois Department of Natural Resources, *Safety Volunteers*, available at <https://www.dnr.illinois.gov/safety/Pages/Volunteers.aspx>.

²¹ 312 IAC 9-12-2.

Table 6. Hunter Education Instructor								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ²²	No	N/A	A person may be designated an instructor if the Pennsylvania Game Commission deems the person competent to give instruction	N/A	N/A	N/A	N/A	N/A

²² 34 Pa.C.S. 2704(d)(2).

Table 7. Trapper Education Instructor

State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ²³	Yes	Complete Ohio trapper education instruction course and trapping education course	3 years	Yes	Attend trainings and recertifications when required by Ohio Department of Natural Resources	N/A	Lifetime	N/A
Illinois ²⁴	Yes (falls under Safety Education Volunteer Instructors)	Complete 5 classroom sessions under the supervision of a master instructor and attend a course regarding policies and procedures for instructors	No	N/A	N/A	N/A	Lifetime	N/A
Indiana ²⁵	Yes (permit required to set a trap as part of an education course)	N/A	Must be an authorized employee of the Natural Resource Commission or be employed or sponsored by an educational institution or nonprofit organization	N/A	N/A	N/A	Valid for one education course	N/A

²³ Ohio Administrative Code 1501:31-29-02.

²⁴ Illinois Department of Natural Resources, *Safety Volunteers*, available at <https://www.dnr.illinois.gov/safety/Pages/Volunteers.aspx>.

²⁵ 312 IAC 9-10-24.

Table 7. Trapper Education Instructor								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ²⁶	No	N/A	A person may be designated an instructor if the Pennsylvania Game Commission deems the person competent to give instruction	N/A	N/A	N/A	N/A	N/A

²⁶ 34 Pa.C.S. 2704(d)(2).

Table 8. Commercial Fishing License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ²⁷	Yes	N/A	N/A	N/A	N/A	Varies based on the type of equipment used	1 year	Varies based on the type of equipment used
Illinois ²⁸	Yes	N/A	N/A	N/A	N/A	Varies based on resident status and type of equipment used	1 year	Varies based on resident status and type of equipment used
Indiana ²⁹	Yes	N/A	N/A	N/A	N/A	Varies based on the body of water being fished and the type of equipment used	1 year	Varies based on the body of water being fished and the type of equipment used
Pennsylvania ³⁰	Yes	N/A	N/A	N/A	N/A	Varies based on resident status and type of equipment used	1 year	Varies based on resident status and type of equipment used

²⁷ R.C. 1533.342 and 1533.35.

²⁸ 17 Ill. Adm. Code 830.14; see also Illinois Department of Natural Resources, Commercial Licenses, <https://www.dnr.illinois.gov/LPR/Pages/CommercialLicensesFees.aspx>.

²⁹ 312 IAC 9-8-1 to 9-8-6.

³⁰ 58 Pa. Code 69.22; see also Pennsylvania Fish & Boat Commission, Lake Erie Net License or Seine License Application, available at https://www.fishandboat.com/Transact/Forms/CommercialPropertyWater/Documents/pfbc171_LakeErieTrapNet.pdf.

Table 9. Fishing Guide License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ³¹	Yes	Must have a valid Coast Guard license	Minimum 90 days service in the last 3 years on vessels of appropriate tonnage and 360 days deck service (Coast Guard license requires)	N/A	N/A	\$50	1 year	\$50
Illinois ³²	Yes (Passenger Boat License)	Must have a valid Coast Guard license	Minimum 90 days service in the last 3 years on vessels of appropriate tonnage and 360 days deck service (Coast Guard license requires)	N/A	N/A	\$50 per boat	1 year	\$50 per boat
Indiana ³³	Yes	Must have a valid Coast Guard license	Minimum 90 days service in the last 3 years on vessels of appropriate tonnage and 360 days deck service (Coast Guard license requires)	N/A	N/A	\$100	1 year	\$100

³¹ R.C. 1533.51.

³² Illinois Department of Natural Resources, Passenger & Rental Boat License, available at <https://www.dnr.illinois.gov/boating/Pages/PassengerRentalBoatLicense.aspx>.

³³ Indiana Code 14-22-15-1 to 14-22-15-3.

Table 9. Fishing Guide License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ³⁴	Yes	Must have a valid Coast Guard license	Minimum 90 days service in the last 3 years on vessels of appropriate tonnage and 360 days deck service (Coast Guard license requires)	N/A	N/A	\$100 for residents, \$400 for nonresidents	1 year	\$100 for residents, \$400 for nonresidents

³⁴ 30 Pa.C.S. 2715.

Table 10. Commercial Propagating License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ³⁵	Yes	No	No	No	No	\$40	1 year	\$40
Illinois ³⁶	Yes (falls under Class B Commercial bird breeders permit or game breeders permit for game mammals, game birds, and migratory game birds; fur-bearing mammal breeder permit; or herpetoculture permit for reptiles and amphibians)	N/A	N/A	N/A	N/A	\$20.50 for Class B Commercial bird breeders permit or game breeders permit; \$25.50 for fur-bearing mammal breeder permit; \$50 for herpetoculture permit	1 year for all permits	\$20.50 for Class B Commercial bird breeders permit or game breeders permit; \$25.50 for fur-bearing mammal breeder permit; \$50 for herpetoculture permit
Indiana ³⁷	Yes (falls under game breeder's license for game birds, game mammals, and fur-bearing mammals ³⁸ or reptile captive breeding license for snakes)	N/A	N/A	N/A	N/A	\$15 for both licenses	1 year for both licenses	\$15 for both licenses

³⁵ R.C. 1533.71 and Ohio Department of Natural Resources, *Specialty Licenses and Permits*, <http://wildlife.ohiodnr.gov/licenses-and-permits/specialty-licenses-permits>.

³⁶ 510 ILCS 68/50-5, 520 ILCS 5/3.23 and 3.25, 17 IAC 885.80 and 885.100, Department of Natural Resources, *Commercial Licenses*, <https://www.dnr.illinois.gov/LPR/Pages/CommercialLicensesFees.aspx>, and Department of Natural Resources, *Herptile Permit*, <https://www.dnr.illinois.gov/conservation/NaturalHeritage/Pages/HerptilePermit.aspx>.

³⁷ IC 14-22-20-1 to 14-22-20-3, 312 IAC 9-5-9 and 9-10-4, and Indiana Department of Natural Resources, *Application for Game Breeder's License*, <https://forms.in.gov/Download.aspx?id=4641>.

³⁸ The owner of a licensed hunting preserve is not required to obtain a license.

Table 10. Commercial Propagating License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ³⁹	Yes (falls under propagating permit for game bird, wild bird, game animal, and wild animal; falls under registration for artificial propagation for reptiles and amphibians)	N/A	N/A	N/A	N/A	For propagating permit, \$25 for 1 species and \$10 for each additional species, with the total fee then multiplied by the license duration selected by the applicant; for registration for artificial propagation, \$150	For propagating permit, 1 to 3 years (selected by the applicant); for registration for artificial propagation, 5 years	For propagating permit, \$25 for 1 species and \$10 for each additional species, with the total fee then multiplied by the license duration selected by the applicant; for registration for artificial propagation, \$150

³⁹ 3 Pa.C.S. 4220 and 4221, 34 Pa.C.S. 2903, 2904(a)(16), and 2930, 58 Pa. Code 79.8, and Department of Agriculture, *Application to Register for Artificial Propagation*, <https://www.agriculture.pa.gov/Animals/AHDServices/licenses-certificates/Aquaculture%20Licensing/Documents/Reptile%20Propagation%20Packet%202018.pdf>.

Table 11. Noncommercial Propagating License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁴⁰	Yes	No	No	No	No	\$25	1 year	\$25
Illinois ⁴¹	Yes (falls under Class A Noncommercial bird breeders permit or game breeders permit for game mammals, game birds, and migratory game birds; fur-bearing mammal breeder permit; and herpetoculture permit)	N/A	N/A	N/A	N/A	\$10.50 for Class A Noncommercial bird breeders permit or game breeders permit; \$25.50 for fur-bearing mammal breeder permit; \$50 for herpetoculture permit	1 year for all permits	\$10.50 for Class A Noncommercial bird breeders permit and game breeders permit; \$25.50 for fur-bearing mammal breeder permit; \$50 for herpetoculture permit
Indiana ⁴²	Yes (same as game breeder's license ⁴³ and reptile captive breeding license)	N/A	N/A	N/A	N/A	\$15 for both licenses	1 year for both licenses	\$15 for both licenses

⁴⁰ R.C. 1533.71 and Ohio Department of Natural Resources, *Specialty Licenses and Permits*, <http://wildlife.ohiodnr.gov/licenses-and-permits/specialty-licenses-permits>.

⁴¹ 510 ILCS 68/50-5, 520 ILCS 5/3.23 and 3.25, 17 IAC 885.80 and 885.100, Department of Natural Resources, *Commercial Licenses*, <https://www.dnr.illinois.gov/LPR/Pages/CommercialLicensesFees.aspx>, and Department of Natural Resources, *Herptile Permit*, <https://www.dnr.illinois.gov/conservation/NaturalHeritage/Pages/HerptilePermit.aspx>.

⁴² IC 14-22-20-1 to 14-22-20-3, 312 IAC 9-10-4, and Indiana Department of Natural Resources, *Application for Game Breeder's License*, <https://forms.in.gov/Download.aspx?id=4641>.

⁴³ The owner of a licensed hunting preserve is not required to obtain a license.

Table 11. Noncommercial Propagating License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ⁴⁴	Yes (same as propagating permit and registration for artificial propagation)	N/A	N/A	N/A	N/A	For propagating permit, \$25 for 1 species and \$10 for each additional species, with the total fee then multiplied by the license duration selected by the applicant; for registration for artificial propagation, \$150	For propagating permit, 1 to 3 years (selected by applicant); for registration for artificial propagation, 5 years	For propagating permit, \$25 for 1 species and \$10 for each additional species, with the total fee then multiplied by the license duration selected by the applicant; for registration for artificial propagation, \$150

⁴⁴ 3 Pa.C.S. 4220 and 4221, 34 Pa.C.S. 2903, 2904(a)(16), and 2930, 58 Pa. Code 79.8, and Department of Agriculture, *Application to Register for Artificial Propagation*, <https://www.agriculture.pa.gov/Animals/AHDServices/licenses-certificates/Aquaculture%20Licensing/Documents/Reptile%20Propagation%20Packet%202018.pdf>.

Table 12. Captive White-tailed Deer Propagation								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁴⁵	Yes	N/A	N/A	N/A	N/A	\$40	Until licensee ceases to hold captive white-tailed deer or the license is revoked	N/A
Illinois ⁴⁶	Yes (falls under Class A or Class B wild game breeder license)	N/A	N/A	N/A	N/A	Class A: \$10.50 Class B: \$20.50	1 year	Class A: \$10.50 Class B: \$20.50
Indiana ⁴⁷	Yes (falls under game breeder's license) ⁴⁸	N/A	N/A	N/A	N/A	\$15	1 year	\$15
Pennsylvania ⁴⁹	Yes (falls under wildlife propagation permit)	N/A	N/A	N/A	N/A	\$25 for one species/\$10 for each additional species; total fees for a license are multiplied by the license duration selected by the applicant	1 to 3 years (selected by applicant)	\$25 for one species/\$10 for each additional species; total fees for a license are multiplied by the license duration selected by the applicant

⁴⁵ R.C. 1533.71.

⁴⁶ 520 ILCS 5/3.23 and Illinois Department of Natural Resources, *Commercial Licenses*, <https://www.dnr.illinois.gov/LPR/Pages/CommercialLicensesFees.aspx>.

⁴⁷ IC 14-22-20-1 through 14-22-20-3 and Indiana Department of Natural Resources, *Application for Game Breeder's License*, <https://www.in.gov/dnr/fishwild/2371.htm>.

⁴⁸ The owner of a licensed hunting preserve or a cervidae livestock operation is not required to obtain a license.

⁴⁹ 34 Pa.C.S. 2903, 2904, and 2930.

Table 13. Commercial Bird Shooting Preserve								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁵⁰	Yes	N/A	N/A	N/A	N/A	\$200	1 year	\$200
Illinois ⁵¹	Yes (falls under both Class A and Class B licenses)	N/A	N/A	N/A	N/A	Class A: \$100 Class B: \$200	1 year	Class A: \$100 Class B: \$200
Indiana ⁵²	Yes (falls under shooting preserve)	N/A	N/A	N/A	N/A	\$100	1 year	\$100
Pennsylvania ⁵³	Yes (falls under commercial regulated hunting ground)	N/A	N/A	N/A	N/A	\$100 for first 100 acres/\$25 for each additional 100 acres; total fees for a license are then multiplied by the license duration selected by the applicant	1 to 3 years (selected by applicant)	\$100 for first 100 acres/\$25 for each additional 100 acres; total fees for a license are then multiplied by the license duration selected by the applicant

⁵⁰ R.C. 1533.72.

⁵¹ Illinois Department of Natural Resources, Regulations-Game Breeding and Hunting Preserve Areas, <https://www.dnr.illinois.gov/hunting/Pages/Licensed-Hunting-Preserves.aspx>.

⁵² IC 14-22-31-1, 14-22-31-2, 14-22-31-5, and 14-22-31-7.

⁵³ 34 Pa.C.S. 2903, 2904, and 2928.

Table 14. Wild Animal Hunting Preserve License								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁵⁴	Yes	N/A	N/A	N/A	N/A	\$1,000	1 year	\$200
Illinois ⁵⁵	Yes (falls under both Class A and Class B licenses)	N/A	N/A	N/A	N/A	Class A: \$100 Class B: \$200	1 year	Class A: \$100 Class B: \$200
Indiana ⁵⁶	Yes (falls under shooting preserve and hunting preserve)	N/A	N/A	N/A	N/A	\$100 (shooting preserve); \$300 (hunting preserve)	1 year	\$100 (shooting preserve); \$300 (hunting preserve)
Pennsylvania ⁵⁷	Yes (falls under noncommercial and commercial regulated hunting ground permits)	N/A	N/A	N/A	N/A	Noncommercial: \$38 for first 100 acres/\$8 for each additional 100 acres; Commercial: \$100 for first 100 acres/\$25 for each additional 100 acres; total fees for each license are then multiplied by the license duration selected by the applicant	1 to 3 years (selected by applicant)	Noncommercial: \$38 for first 100 acres/\$8 for each additional 100 acres; Commercial: \$100 for first 100 acres/\$25 for each additional 100 acres; total fees for each license are then multiplied by the license duration selected by the applicant

⁵⁴ R.C. 1533.721.

⁵⁵ Illinois Department of Natural Resources, Regulations-Game Breeding and Hunting Preserve Areas, <https://www.dnr.illinois.gov/hunting/Pages/Licensed-Hunting-Preserves.aspx>.

⁵⁶ IC 14-22-31-0.5 to 14-22-31-14 and 15-17-14.7-1 to 15-17-14.7-16.

⁵⁷ 34 Pa.C.S. 2903, 2904, and 2928.

Table 15. Clay Mine Foreperson Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁵⁸	Yes (certificate)	N/A	3 years' mining experience	N/A	N/A	N/A	N/A	N/A
Illinois ⁵⁹	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁵⁸ R.C. 1561.07. A provision of law in the chapters otherwise dealing with underground mines specifies that those chapters also apply to clay mines and specify that the Chief of the Division of Mineral Resources in the Department of Natural Resources is to adopt rules for the examination and certification of clay mine forepersons or clay stripping pits. Such rules have not been adopted, however, possibly because there do not appear to be any underground clay mines in Ohio.

⁵⁹ Illinois certifies mine foremen, and that certification applies to clay mines, but that certification is addressed in the spreadsheet for "mine forepersons."

Table 16. Mine Electrician

State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁶⁰	Yes	No	1 year experience performing electrical work in a mine, or equivalent experience	Yes (\$10 fee)	8 hour annual electrical refresher training	None, other than \$10 exam fee	Indefinite, unless the mine electrician does not complete the required continuing education	No
Illinois ⁶¹	Yes	8 hour Illinois Basic Electrical Safety Training and (a) Bachelor of Science in Electrical Engineering, (b) 112 hour Illinois Initial Mine Electrical Training Course, or (c) 96 hours of Mine Safety and Health Administration electrical training	1 year experience performing electrical work in a coal mine or related industry	Yes	8 hour annual electrical refresher training	\$50	Indefinite, unless the mine electrician does not complete the required continuing education. License must be renewed each year	\$25
Indiana ⁶²	Yes	No	1 year experience performing electrical work	Yes (\$25 fee)	8 hour annual electrical refresher training	None, other than \$25 exam fee	Indefinite, unless revoked	No

⁶⁰ R.C. 1561.13, 1561.14, and 1561.15.

⁶¹ 225 ILCS 705/40.1; 62 Ill. Adm. Code 230.30 and 230.40.

⁶² Ind. Code Ann. 22-10-3-10 and 22-10-3-11.1.

Table 16. Mine Electrician

State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Pennsylvania ⁶³	Yes	Training in determining the presence of explosive and noxious gases, and in the use of gas detection devices	5 years' experience working in an underground coal mine, or 4 years if the mine electrician holds a bachelor's degree in electrical engineering or associate degree in electrical technology	Yes	8 hour annual electrical refresher training	\$100	Indefinite, unless revoked	No

⁶³ 52 P.S. 690-202; <http://files.dep.state.pa.us/Mining/Deep%20Mine%20Safety/DMSPortalFiles/Certifications/Application%20for%20Bituminous%20Mine%20Officials%20Certification.pdf>.

Table 17. Foreperson of Surface Maintenance Facilities of Underground or Surface Mines Certificate

State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁶⁴	Yes	No, but shall be able to read and write in English	Yes, 3 years' actual practical experience in or around the surface maintenance facilities of underground or surface mines or the equivalent thereof	Yes (\$10 fee)	N/A	N/A	No specified time	N/A
Illinois	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁶⁴ R.C. 1561.18.

Table 18. Mine Foreperson of Gaseous Coal Mine Certification

State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁶⁵	Yes	No, but shall be able to read and write in English	Yes, 5 years of actual practical experience	Yes (\$25 fee)	No	No	No specified time, but must be recertified if ceases to work in an underground coal mine for more than 2 years	No, but must be retrained if ceases to work in an underground coal mine for 1 or more years
Illinois ⁶⁶	Yes	Yes, must have Certificate of Competency as Mine Examiner; satisfactorily completed a course of instruction in first aid to the injured and mine rescue methods	Yes, 4 years' practical underground mining experience, but graduation from an accredited engineering school or 4 year coal mining technology program may replace 2 of the 4 years of experience; graduation from a 2 year coal mining technology program may replace 1 year of experience	Yes (\$50 fee)	No	No	No specified time	No

⁶⁵ R.C. 1561.16 and Ohio Administrative Code 1501:10-1-05. It appears that gaseous mines are coal mines, <http://minerals.ohiodnr.gov/miner-safety/certification-testing-safety-training-faq>.

⁶⁶ 225 ILCS 705/5.01 and 62 Ill. Adm. Code 230.30.

Table 18. Mine Foreperson of Gaseous Coal Mine Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Indiana ⁶⁷	Yes	Yes, certificate of competency	Yes, 4 years of experience underground in coal mines, but graduation from an accredited engineering school or 4 year coal mining technology program may replace 2 of the 4 years of experience; graduation from a 2 year coal mining technology program may replace 1 year of experience	Yes (\$25 fee)	No	No	No specified time	No
Pennsylvania ⁶⁸	Yes	No	Yes, for anthracite mines – 5 years' practical experience as a miner; for Bituminous Mines – 5 years' experience in underground bituminous coal mine; a degree in mining engineering or mining technology may substitute for 1 year of experience	Yes (\$2 fee)	No	Yes (\$3 fee)	No specified time	No

⁶⁷ IC 22-10-3-10 and 22-10-3-13.

⁶⁸ 52 P.S. § 11, 52 P.S. § 70-201, 52 P.S. § 70-205, and 52 P.S. § 690-202.

Table 19. Mine Foreperson for Nongaseous Coal Mine Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁶⁹	Yes	No, but shall be able to read and write in English	Yes, 3 years of actual practical experience in mines	Yes (\$25 fee)	No	No	No specified time, but must be recertified if ceases to work in an underground coal mine for more than 2 years	No, but must be retrained if ceases to work in an underground coal mine for 1 or more years
Illinois ⁷⁰	Yes	Yes, must have Certificate of Competency as Mine Examiner; satisfactorily completed a course of instruction in first aid to the injured and mine rescue methods	Yes, 4 years of practical underground mining experience, but graduation from an accredited engineering school or 4 year coal mining technology program may replace 2 of the 4 years of experience; graduation from a 2 year coal mining technology program may replace 1 year of experience	Yes (\$50 fee)	No	No	No specified time	No

⁶⁹ R.C. 1561.17 and Ohio Administrative Code 1501:10-1-05. It appears that nongaseous mines are coal mines.

⁷⁰ 225 ILCS 705/5.01 and 62 Ill. Adm. Code 230.30.

Table 19. Mine Foreperson for Nongaseous Coal Mine Certification								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Indiana ⁷¹	Yes	Yes, certificate of competency	Yes, 4 years of experience in underground coal mines, but graduation from an accredited engineering school or 4 year coal mining technology program may replace 2 of the 4 years of experience; graduation from a 2 year coal mining technology program may replace 1 year of experience	Yes (\$25 fee)	No	No	No time specified	No
Pennsylvania ⁷²	Yes	No	Yes, 5 years of practical experience as a miner	Yes (\$2 fee)	No	Yes (\$3 fee)	No time specified	No

⁷¹ IC 22-10-3-10.

⁷² 52 P.S. § 11, 52 P.S. § 70-201, 52 P.S. § 70-205, and 52 P.S. § 690-202.

Table 20. Mine Foreperson of Surface Mines								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁷³	Yes	No, but shall be able to read and write in English	Yes, 5 years' actual practical experience in surface mines	Yes (\$10 fee)	No	No	No specified time	No
Illinois ⁷⁴	Yes	Yes, training in first aid to the injured	Yes, 2 years of surface mining experience	Yes (\$50 fee)	No	No	No specified time	No
Indiana	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁷³ R.C. 1561.19.

⁷⁴ Surface mine supervisor appears to be loosely analogous to Ohio's foreperson of a surface mine. 225 ILCS 705/38.3, <https://www.dnr.illinois.gov/mines/MinesafetyTraining/Pages/GeneralSurfaceSupervisor.aspx>, and <https://www.dnr.illinois.gov/mines/MinesafetyTraining/Documents/SurfaceMineSupervisorApp.pdf>.

Table 21. Shot Firer								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁷⁵	Yes	Knowledge of explosives, mine gases, and mine safety	1 year's actual practical experience in the underground workings of mines or the equivalent	Yes (\$10 fee)	8 hour refresher training course every 2 years	None, other than \$10 exam fee	2 years	\$25
Illinois ⁷⁶	Yes	3 day course, which includes an exam on the 4 th day, and designing an actual blast for a surface mine operation	120 blasts or 2 years of related blasting experience, along with training	Yes	Must retest to renew	\$50	5 years	\$150
Indiana ⁷⁷	Yes	40 hour new miner training	6 months of underground mine experience	Yes (\$25 fee)	15 hours every 3 years	None, other than \$25 exam fee	2 years	No
Pennsylvania ⁷⁸	Yes	Must complete the Bureau of Mine Safety's Shot-Firer Certification Program	Possess a valid PA Miner's Certificate or a valid PA Mine Officials' certificate for either mine foreman, assistant mine foreman, or mine examiner; and evidence of having attended a Mine Safety or Mine Safety and Health Administration-approved gas detection training course	Yes	8 hours every 3 years	\$50	3 years	\$30

⁷⁵ R.C. 1561.13, 1561.15, 1561.21, and 1561.23.

⁷⁶ Ill. Admin. Code tit. 62, § 225.80.

⁷⁷ 312 Ind. Admin. Code 25-1-21 and 25-9-3 to 25-9-8.

⁷⁸ 52 Pa. Stat. Ann. § 690-207.

Table 22. Fire Boss								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁷⁹	Yes	No formal education or training required but must have knowledge of the dangers and nature of noxious and explosive gases gained by practical experience	At least 3 years' practical experience in a gaseous mine or equivalent	Yes (\$10 fee)	No	None, other than \$10 exam fee	Indefinite	No
Illinois ⁸⁰	Yes (known as a mine examiner)	First aid and mine rescue training	Must have either: (1) 2 years' practical experience and a degree in engineering or an approved 4 year program in coal mining technology from an accredited school; (2) 3 years' practical experience and a 2 year associate in applied science degree in coal mining technology; (3) 4 years' practical mining experience.	Yes (\$50 fee)	No	None, other than \$50 exam fee	Indefinite	No

⁷⁹ R.C. 1561.13, 1561.22, and 1561.23.

⁸⁰ 225 ILCS 705/6.01; 62 Ill. Adm. Code 230.30.

Table 22. Fire Boss								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Indiana ⁸¹	Yes (known as a mine examiner)	Must have knowledge of the following: (1) The nature and properties of poisonous, noxious, and explosive gases and methods for their detection and control; (2) The practical aspects of coal mining pertaining especially to ventilation and roof control; (3) The legal responsibilities of a mine examiner.	Must have either: (1) 3 years' experience; (2) 2 years' experience and hold a degree in engineering or an associate in applied science degree in coal mining technology.	Yes (\$25 fee)	No	None, other than \$25 exam fee	Indefinite, unless revoked	No
Pennsylvania ⁸²	Yes (known as a mine examiner)	For a bituminous mine, at least 2 weeks of training after becoming certified	For an anthracite mine, 5 years' practical experience as a miner. For a bituminous mine, have either: (1) 3 years' experience; (2) 2 years' experience and hold a bachelor's degree in mining engineering or an associate degree in mining technology.	Yes (\$25 fee)	No	\$25 (in addition to exam fee)	Indefinite	No

⁸¹ Burns Ind. Code Ann. § 22-10-3-10, 22-10-3-11.1, and 22-10-3-12.

⁸² 52 P.S. 70-201, 70-205, 690-201, and 690-202; 71 P.S. 240.7A.

Table 23. Mine Medical Responder								
State	License required?	Education or training	Experience	Exam	Continuing education	Initial licensure fee	License duration	Renewal fee
Ohio ⁸³	A mine medical responder or EMT must be present if 20 or more persons are employed on a shift	For mine medical responders: 83 hour initial training course	No	Yes (\$250 fee)	16 hour refresher training course every 2 years (\$100)	\$250 (in addition to \$250 exam fee)	2 years, unless the mine medical responder completes the continuing education	N/A
Illinois ⁸⁴	An EMT must be available if 30 or more persons are working at the mine. There is no separate mine medical responder certificate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indiana	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pennsylvania ⁸⁵	An EMT must be available if 20 or more persons are employed on a shift. There is no separate mine medical responder certificate	N/A	N/A	N/A	N/A	N/A	N/A	N/A

R-133-2196/rs

⁸³ R.C. 1565.15; Ohio Administrative Code 1501:10-1-04.⁸⁴ 410 ILCS 15/3.⁸⁵ 52 P.S. 27.7-2.