

**State Board of Crane Operators – Military Occupational Crosswalk**

Licensed Occupations: [Crane Operator](#); [Crane Operator Trainee](#); [Tower Crane Operator](#); [Tower Crane Operator Trainee](#); [Telescopic Boom with Fixed Operator](#); [Telescopic Boom with Fixed Operator Trainee](#); [Telescopic Boom with Rotating Operator](#); [Telescopic Boom with Rotating Operator Trainee](#); [Lattice Boom Truck Operator](#); [Lattice Boom Truck Operator Trainee](#); [Lattice Boom Crawler Operator](#); [Lattice Boom Crawler Operator Trainee](#)

**Air Force**

Related Occupations (Military Occupation Code):

- Pavements and Construction Equipment Craftsman (3E2X1; 3E271; 3E251; 3E231; 3E211) [Enlisted] **Page 2**

**Army**

Related Occupations: (Military Occupation Code):

- Quarrying Specialist (12G) [Enlisted] **Page 3**
- Cargo Specialist (88H) [Enlisted] **Page 4**
- Horizontal Construction Engineer (12N) [Enlisted] **Page 5**

**Coast Guard**

No related occupations

**Marines**

Related Occupations (Military Occupation Code):

- Engineer Equipment Operator (1345 SSGT-PVT) [Enlisted] **Page 6**
- Assault Breacher Vehicle (ABV)/Armored Vehicle Launched Bridge (AVLB) Crewman (1372 MGYSGT-PFC) [Enlisted] **Page 7**

**Navy**

Related Occupations (Military Occupation Code):

- Equipment Operator (EO) [Enlisted] **Page 8**

**State Board of Crane Operators**  
Crane Operator

<b>Experience Requirement</b>	<b>National Certification Requirements</b> - Pennsylvania does not have an experience requirement, but applicant must be certified nationally (from a State Board approved organization) prior to applying for state certification and will have to meet those experience requirements.
<b>Education Requirement</b>	No Education Requirement for licensure.
<b>Examination Requirement</b>	<b>1 Examination</b> - An applicant for licensure must obtain certification from a State Board approved national certifying organization (such as NCCCO, EICA, NCCER, OECP). In most cases, to obtain certification from a State Board approved certifying organization, an applicant must pass a written and practical exam for the specialties/cranes they are attempting to be certified in.
<b>Profession definition</b>	An individual licensed by the State Board of Crane Operators to operate a crane. A "crane" is a power-operated hoisting machine that has a power-operated winch, load line and boom moving laterally by the rotation of the machine on a carrier or base which has a manufacturer's rated maximum lifting capacity of 15 tons or more, and includes a derrick, crawler crane and wheel-mounted crane of both truck and self-propelled wheel type. The term includes a tower crane, which has a manufacturer's rated maximum lifting capacity of ten-meter tons or more.

**Air Force**  
Pavements and Construction Equipment Craftsman  
(3E2X1; 3E271; 3E251; 3E231; 3E211) [Enlisted]

<b>Job Duties</b>	<ul style="list-style-type: none"> <li>Plans, constructs, and repairs airfield pavements, roads, streets, curbs, surface mats, membranes, and other improved areas using paving and surfacing procedures.</li> <li>Takes soil, aggregate, asphalt, and concrete samples for laboratory tests.</li> <li>Interprets construction drawings and surveys using information such as subgrade contours and grade alignment.</li> <li>Inspects pavements for surface, base, and sub-base damage, or defects. Repairs damaged or defective areas by removing and replacing joint and crack sealant, surface overlays, and seal coats.</li> <li>Determines material and equipment requirements and prepares cost estimates for construction activities.</li> <li>Provides erosion control. Determines type and application of equipment to use in various construction, maintenance, and repair operations.</li> <li>Operates construction equipment to finish grade, level, slope, and compact construction materials.</li> <li>Operates snow and ice removal equipment.</li> <li>Applies chemicals and other ice control products</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>Education: <ul style="list-style-type: none"> <li>Completion of high school with courses in general science, shop mechanics, and use of drawings is desirable.</li> </ul> </li> <li>Training: <ul style="list-style-type: none"> <li>Completion of a basic pavements and equipment operator course is mandatory</li> <li>69 Day Technical Training Course</li> <li>Credits earned towards Construction Technology upon completion</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>Knowledge is mandatory of characteristics, capabilities, operation, and maintenance of equipment used in construction and paving; soil types, properties, limitations, and compaction methods; soil stabilization, drainage, and erosion control; construction and maintenance of asphalt and concrete surfaces; roadbeds; structure erection; landscaping; safety and environmental concerns; and pavement maintenance plans.</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>Certified Construction Manager</li> <li>Commercial Driver's License</li> <li>Construction Health and Safety Technician</li> <li>Mobile Crane Operator (multiple kinds)</li> <li>Transportation: Highway Construction Inspection</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>If the servicemember holds a "Mobile Crane Operator" credential, then they would appear to qualify for licensure.</p> <p>Also, if training for a specific crane module is included in the "Basic pavements &amp; equipment operator course" and the 69-day Technical Training Course, that may suffice for licensure as a crane operator. It would depend on the specific equipment the servicemember trained and operated on. Servicemember should direct any questions regarding military experience and training acceptance to one of the national certifying bodies linked below.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization's code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
<b>Education Requirement</b>	No education requirement for licensure.
<b>Examination Requirement</b>	Servicemember must pass a State Board approved national certifying organization examination (such as NCCCO, EICA, NCCER, OECP) to become certified, and thus eligible to apply for licensure.

**State Board of Crane Operators**  
Crane Operator

<b>Experience Requirement</b>	<b>National Certification Requirements</b> - Pennsylvania does not have an experience requirement, but applicant must be certified nationally (from a State Board approved organization) prior to applying for state certification and will have to meet those experience requirements.
<b>Education Requirement</b>	No Education Requirement for licensure.
<b>Examination Requirement</b>	<b>1 Examination</b> - An applicant for licensure must obtain certification from a State Board approved national certifying organization (such as NCCCO, EICA, NCCER, OECP). In most cases, to obtain certification from a State Board approved certifying organization, an applicant must pass a written and practical exam for the specialties/cranes they are attempting to be certified in.
<b>Profession definition</b>	An individual licensed by the State Board of Crane Operators to operate a crane. A "crane" is a power-operated hoisting machine that has a power-operated winch, load line and boom moving laterally by the rotation of the machine on a carrier or base which has a manufacturer's rated maximum lifting capacity of 15 tons or more, and includes a derrick, crawler crane and wheel-mounted crane of both truck and self-propelled wheel type. The term includes a tower crane, which has a manufacturer's rated maximum lifting capacity of ten-meter tons or more.

**Army**  
Quarrying Specialist (12G) [Enlisted]

<b>Job Duties</b>	<p>Quarry specialists help construct airfields, roads, dams, and buildings by moving tons of earth/materials with heavy types of machinery.</p> <p>They operate powered machines that are used in cleaning, crushing, drilling, grading and detonating rock at construction sites.</p> <ul style="list-style-type: none"> <li>Operate air compressors, pneumatic tools, hydraulic-powered rock drills, rock crushers, screening equipment</li> <li>Run the support equipment during crushing and screening (e.g., generators, conveyors, light sets, and pumps)</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>Job training for a quarry specialist requires 10 weeks of Basic Combat Training and five weeks of Advanced Individual Training. Part of this time is spent in the classroom and part in the field with on-the-job instructions.</li> <li>Skills Learned: <ul style="list-style-type: none"> <li>Operation of different types of equipment</li> <li>Maintenance and repair of equipment</li> <li>General construction principles and information</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>Interest in operating quarry construction equipment</li> <li>Preference for working outdoors</li> <li>Interest in explosives and blasting technique</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>Mobile Crane Operator - Telescopic Boom Cranes Swing Cab</li> <li>Certified Associate in Project Management</li> <li>Certified Construction Contract Administrator</li> <li>Certified Construction Manager</li> <li>Certified Energy Manager</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>The education/training and qualifications for a Quarrying Specialist are consistent with the operation of a crane.</p> <p>If the servicemember holds a “Mobile Crane Operator – Telescopic Boom Cranes Swing Cab” credential, then they would appear to qualify for licensure.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization’s code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
<b>Education Requirement</b>	No education requirement for licensure.
<b>Examination Requirement</b>	Servicemember must pass a State Board approved national certifying organization examination (such as NCCCO, EICA, NCCER, OECP) to become certified, and thus eligible to apply for licensure.

**State Board of Crane Operators**  
Crane Operator

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**Army**  
Cargo Specialist (88H) [Enlisted]

<b>Job Duties</b>	<p>Cargo specialists help ensure Army forces receive supplies, weapons, equipment, and mail — daily, all over the world. They are primarily responsible for transferring or supervising the transfer of passengers, cargo, and equipment to and from air, land, and water transport by manual and mechanical methods. Duties include:</p> <ul style="list-style-type: none"> <li>• Inspect, count and document cargo utilizing both manual and automated data processing systems</li> <li>• Load and unload supplies and equipment from ships, docks, beaches, railheads, boxcars, warehouses, motor vehicles and aircraft</li> <li>• Operate and maintain all types and sizes of winches, cranes, and forklifts</li> <li>• Create load plans for air shipment and ocean liner vessels</li> <li>• Operate ocean liner vessel equipment</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>• Job training for a cargo specialist requires 10 weeks of Basic Combat Training and eight weeks of Advanced Individual Training with on-the-job instructions. Part of this time is spent in the classroom and part in the field.</li> <li>• Skills Learned: <ul style="list-style-type: none"> <li>○ Operation and care of forklifts, power winches, container handlers and cranes</li> <li>○ Techniques for loading and storing cargo</li> <li>○ Techniques for planning and scheduling cargo shipments</li> <li>○ Safety procedures for handling potentially dangerous cargo</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>• Experience operating heavy equipment such as container handlers, forklifts, and cranes</li> <li>• Interest in working around airport, railways, seaports, and ocean beach terminals</li> <li>• Enjoy physical work</li> <li>• Interest in business mathematics</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>• Rigger/Signalperson Certification</li> <li>• Rigger Level I</li> <li>• Signalperson</li> <li>• Rigger Level II</li> <li>• Associate Safety Professional</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>The job duties, education/training, and qualifications for a Cargo Specialist are consistent with the operation of a crane.</p> <p>Servicemember can earn a credential as a “Rigger” during time of service. A rigger is “a person who erects and maintains scaffolding, lifting tackle, cranes, etc.” Depending on the specific rigger credential, it could be consistent with the operation of a crane. More information regarding the content covered in the credential program may be required of the servicemember (if applicable).</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization’s code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
<b>Education Requirement</b>	No education requirement for licensure.
<b>Examination Requirement</b>	Servicemember must pass a State Board approved national certifying organization examination (such as NCCCO, EICA, NCCER, OECP) to become certified, and thus eligible to apply for licensure.

**State Board of Crane Operators**  
Crane Operator

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**Army**  
Horizontal Construction Engineer (12N) [Enlisted]

<b>Job Duties</b>	Horizontal construction engineers use bulldozers, cranes, graders, and other heavy equipment to move tons of earth and material to complete construction projects for the Army. They are also responsible for operating tractors with dozer attachments, scoop loaders, backhoe loaders, hydraulic excavators, motorized graders, and scrapers.  Duties include: <ul style="list-style-type: none"> <li>Analyze the information on grade stakes and placing them</li> <li>Drive bulldozers, roadgraders and other heavy equipment to level earth</li> <li>Clear, grub, strip, excavate, backfill, stockpile and push scraper with tractor crawler</li> <li>Cut and spread fill material with scraper</li> <li>Transport heavy construction equipment with tractor-trailer</li> <li>Assist in performance of combat engineer missions</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>Job training for horizontal construction engineer requires 10 weeks of Basic Combat Training and nine weeks of Advanced Individual Training. Part of this time is spent in the classroom and part in the field with on-the-job instructions.</li> <li>Skills Learned: <ul style="list-style-type: none"> <li>Operation of different types of construction and rough terrain equipment</li> <li>Maintenance and repair of equipment</li> <li>Identification of soil types and placement of grade stakes</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>Interest in operating heavy construction equipment</li> <li>Preference for working outdoors</li> <li>Interest in working with your hands</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>Associate Constructor</li> <li>Certified Associate in Project Management</li> <li>Certified Energy Manager</li> <li>Certified Environmental Auditor</li> <li>Certified Environmental Professional</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>The education/training and qualifications for a Horizontal Construction Engineer are consistent with the operation of a crane.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization's code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
<b>Education Requirement</b>	No education requirement for licensure.
<b>Examination Requirement</b>	Servicemember must pass a State Board approved national certifying organization examination (such as NCCCO, EICA, NCCER, OECP) to become certified, and thus eligible to apply for licensure.

**State Board of Crane Operators**  
Crane Operator

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**Marines**  
Engineer Equipment Operator (1345 SSGT-PVT) [Enlisted]

<b>Job Duties</b>	<ul style="list-style-type: none"> <li>Supervise or operate electric, pneumatic, and internal combustion-powered machines used in drilling, crushing, grading, and cleaning gravel and rock;</li> <li>Supervise or operate all equipment used in concrete and asphalt production and paving; plan and direct layout of asphalt, and supervise production of hot mix asphalt;</li> <li>Solve basic mathematics problems related to earthwork and equipment effectiveness, and apply engineering performance standards to plan and estimate job specifications;</li> <li>Interpret construction drawings and surveys using information such as sub-grade contours and grade alignment;</li> <li>Determine the geographical area most suitable for developing a water supply;</li> <li>Establish and maintain blaster qualification certification program;</li> <li>Investigate proposed work sites to determine resource requirements; prepare cost estimates for in-service work and oversee contractor work;</li> <li>Determine type and application of equipment to use in various construction, maintenance, and repair operations;</li> <li>Perform planning activities and conduct facility surveys;</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>All enlisted service members complete basic military training, which includes time spent in a classroom and in the field, and covers tactical and survival skills, physical training, military life and customs, and weapons training.</li> <li>Job training for construction equipment operators consists of classroom and on-the-job instruction, including practice in operating construction equipment.</li> <li>Training content varies depending on specialty, and may include: <ul style="list-style-type: none"> <li>Operation of different types of construction and rough terrain equipment; Preventive maintenance and repair of equipment; General construction principles and information; Identification of soil types and placement of grade stakes; Shop operations and record keeping</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>Interest in operating heavy construction equipment</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>Certified Maintenance and Reliability Technician</li> <li>Commercial Driver's License</li> <li>Mobile Crane Operator - Lattice Boom Crawler Cranes</li> <li>Mobile Crane Operator - Telescopic Boom Crane Fixed</li> <li>Rigger Level I</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>Some job duties, along with the education/training and qualifications for an Engineer Equipment Operator are consistent with the operation of a crane.</p> <p>Further, the credentials of Mobile Crane Operator – Lattice Boom Crawler Cranes; Mobile Crane Operator – Telescopic Boom Crane Fixed; and possibly Rigger Level 1 are consistent with the operation of a crane.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization's code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
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**State Board of Crane Operators**  
Crane Operator

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**Marines**

Assault Breacher Vehicle (ABV)/Armored Vehicle Launched Bridge (AVLB) Crewman (1372 MGYSGT-PFC) [Enlisted]

<b>Job Duties</b>	<ul style="list-style-type: none"> <li>• Detonate explosives to blast rock in quarries and at construction sites;</li> <li>• Direct quarry rock evacuation to produce required sizes and tonnage of rock;</li> <li>• Operate air compressor and tools in support of horizontal construction projects;</li> <li>• Plan, construct, and repair airfield pavements, roads, streets, curbs, surface mats, membranes, and other improved areas using paving and surfacing procedures;</li> <li>• Oversee stowage of blasting materials and maintain records of expended and stowed explosives</li> <li>• Inspect, lubricate, and perform operator maintenance on construction and snow removal equipment;</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>• All enlisted service members complete basic military training, which includes time spent in a classroom and in the field, and covers tactical and survival skills, physical training, military life and customs, and weapons training.</li> <li>• Job training for construction equipment operators consists of classroom and on-the-job instruction, including practice in operating construction equipment.</li> <li>• Training content varies depending on specialty, and may include:             <ul style="list-style-type: none"> <li>○ Operation of different types of construction and rough terrain equipment; Preventive maintenance and repair of equipment; General construction principles and information; Identification of soil types and placement of grade stakes; Shop operations and record keeping</li> </ul> </li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>• Interest in operating heavy construction equipment</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>• Certified Maintenance and Reliability Technician</li> <li>• Commercial Driver's License</li> <li>• Mobile Crane Operator - Lattice Boom Crawler Cranes</li> <li>• Mobile Crane Operator - Telescopic Boom Crane Fixed</li> <li>• Rigger Level I</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>Some job duties, along with the education/training and qualifications for an Assault Breacher Vehicle Crewman are consistent with the operation of a crane.</p> <p>Further, the credentials of Mobile Crane Operator – Lattice Boom Crawler Cranes; Mobile Crane Operator – Telescopic Boom Crane Fixed; and possibly Rigger Level 1 are consistent with the operation of a crane.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization's code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
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**Navy**  
Equipment Operator (EO) [Enlisted]

<b>Job Duties</b>	<ul style="list-style-type: none"> <li>Operate a wide variety of heavy-duty, self-propelled construction equipment for projects including, building construction, roadway construction, pier construction, grading and excavation;</li> <li>Perform minor maintenance on equipment to ensure safe, efficient operation;</li> <li>Serve as members of a crane crew to rig cable assemblies and change attachments for various lifting and pile-driving operations;</li> <li>Prepare operational reports on equipment; operate rock crushing and well-drilling equipment;</li> <li>Perform as blasters for construction projects. reading and interpreting blueprints and preparing sketches for projects;</li> <li>Make estimates of material, labor, and equipment requirements.</li> </ul>
<b>Education/ Training</b>	<ul style="list-style-type: none"> <li>After completing the requisite basic training at the Recruit Training Command in Great Lakes, Illinois, these sailors attend 92 days of technical school (known in the Navy as A-school) at Fort Leonard Wood in Missouri.</li> <li>During A-school they'll learn the necessary procedures and protocols for handling and operating the Navy's heavy equipment and get the permits they need to operate the equipment safely when in the field.</li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>Must have normal color perception</li> <li>Valid state driver's license</li> <li>No DUI - 1 year</li> <li>No major accidents.</li> <li>48-month obligated service required</li> </ul>
<b>Related Credentials Offered</b>	<ul style="list-style-type: none"> <li>Certified Construction Manager</li> <li>Boom Truck Fixed Cab Operator</li> <li>Certified Associate in Project Management</li> <li>Certified Pump Installer</li> <li>Certified Well Driller</li> </ul>

**Licensure Requirement – Military Experience Equivalency Notes**

<b>Experience Requirement</b>	<p>Several job duties, along with technical school training coursework and qualifications for an Equipment Operator are consistent with the operation of a crane.</p> <p>Further, the "Boom Truck Fixed Cab Operator" credential appears consistent with the operation of a crane.</p> <p>Pennsylvania does not have any experience requirements for licensure other than holding a national certification from an approved organization.</p> <p>Qualifications generally include passing an examination and complying with the organization's code of ethics. National certifying bodies include the <a href="#">NCCCO</a>, <a href="#">EICA</a>, <a href="#">NCCER</a>, and the <a href="#">OECP</a>.</p> <p>Servicemember must be certified nationally to qualify for licensure.</p>
<b>Education Requirement</b>	No education requirement for licensure.
<b>Examination Requirement</b>	Servicemember must pass a State Board approved national certifying organization examination (such as NCCCO, EICA, NCCER, OECP) to become certified, and thus eligible to apply for licensure.