

Sec. 20-332-5. Licenses issued by the state board of heating, piping, cooling, and sheet metal work examiners

The following licenses shall be issued by the state board of heating, piping, cooling, and sheet metal work examiners:

(a) **Unlimited heating-cooling contractor's license (S-1).** The holder of this license may do all heating, piping and cooling work as defined in Section 20-330 of the Connecticut General Statutes. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyman or equivalent experience and training.

(b) **Unlimited heating-cooling journeyman's license (S-2).** The holder of this license may do all heating, piping and cooling work as so defined only while in the employ of a licensed contractor. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(c) **Limited heating contractor's license (S-3).**

The holder of this license may perform the installation, repair, replacement, maintenance or alteration of any apparatus of piping, appliances, devices or accessories for heating systems, boilers, including apparatus and piping for the generation or conveyance of steam and associated pumping equipment and oil burner installation and servicing (excluding sheet metal work, air conditioning and refrigeration systems). This license also covers the installation of hot, chilled and condenser water, as well as steam piping in air conditioning systems. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyman or equivalent experience and training.

(d) **Limited heating journeyman's license (S-4).**

The holder of this license may perform the installation, repair, replacement, maintenance or alteration of any apparatus for piping, appliances, devices or accessories for heating systems, boilers, including apparatus and piping for the generation or conveyance of steam and associated pumping equipment and oil burner installation and servicing (excluding sheet metal work, air conditioning and refrigeration systems) and only while in the employ of a contractor licensed for such work. This license also covers the installation of hot, chilled and condenser water, as well as steam piping in air conditioning systems. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(e) **Limited heating cooling contractor's license (S-9).**

The holder of this license may perform only work limited to hot water or steam heating systems and cooling work for buildings not over three stories high, with total heating load not exceeding 500,000 BTU'S, steam pressure not exceeding fifteen pounds, and/or cooling installations up to 35 tons per system. This license also covers the installation or servicing of oil burners handling up to five gallons per hour as well as LP gas supplied by gas containers and/or natural gas piping for work covered by this limited license. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyman or equivalent experience and training.

(f) **Limited heating cooling journeyman's license (S-10).**

The holder of this license may perform work only while in the employ of a licensed contractor and only limited to hot water or steam heating systems and cooling work for buildings not over three stories high, with total heating load not exceeding 500,000 BTU'S,

steam pressure not exceeding fifteen pounds, and/or cooling installations up to 35 tons per system. This license also covers the installation or servicing of oil burners handling up to five gallons per hour as well as LP gas supplied by gas containers and/or natural gas piping for work covered by this limited license. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(g) Limited heating contractor's license (S-7).

The holder of this license may perform only work limited to hot water or steam heating systems for buildings not over three stories high with a total heating load not exceeding 500,000 BTU's and steam pressure not exceeding fifteen pounds. This license also covers the servicing and installation of oil burners handling up to five gallons per hour, as well as gas burners and gas piping for the work covered by this license. The requirements to qualify for this license examination shall be two (2) years as a journeyman or equivalent experience and training.

(h) Limited heating journeyman license (S-8).

The holder of this license may perform only work limited to hot water or steam heating systems for buildings not over three stories high with a total heating load not exceeding 500,000 BTU's and steam pressure not exceeding fifteen pounds and only while in the employ of a contractor licensed for such work. Also covered by this license is the servicing and installation of oil burners handling up to five gallons per hour, as well as gas burners and gas piping for work covered by this license. The requirements to qualify for this license exam shall be the completion of a registered apprenticeship program or equivalent experience and training.

(i) Limited heating contractor's license (B-1).

The holder of this license may perform only work of installing, servicing and repairing of gas or oil burners for domestic and light commercial installations. A domestic or light commercial burner shall be considered as one consuming five gallons or less per hour.

(j) Limited heating journeyman license (B-2).

The holder of this license may perform only work of installing, servicing and repairing of gas or oil for domestic and light commercial installations and only while in the employ of a contractor licensed for such work.

(k) Limited heating contractor's license (B-3).

The holder of this license may perform the installing, servicing and repairing of any gas or oil fired burners. The requirements to qualify for this license examination shall be two (2) years as a journeyman or equivalent experience and training.

(l) Limited heating journeyman license (B-4).

The holder of this license may perform the installing, servicing and repairing of any gas or oil fired burner and only while in the employ of a contractor licensed for such work. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(m) Limited air conditioning, refrigeration and warm air contractor's license (D-1).

The holder of this license may perform only work limited to the installation, repair, replacement, maintenance or alteration of any warm air, air conditioning and refrigeration system, including necessary piping for the conveyance of heating or cooling media and

associated pumping equipment. This license does not include the installation or servicing of oil burners of any size. The requirements to qualify for this license examination shall be two (2) years as a journeyperson or equivalent experience and training.

(n) Limited air conditioning, refrigeration and warm air journeyperson license (D-2).

The holder of this license may perform only work limited to the installation, repair, replacement, maintenance or alteration of any warm air, airconditioning and refrigeration system, including necessary piping for the conveyance of heating or cooling media and associated pumping equipment and only while in the employ of a contractor licensed for such work. This license does not cover the installation or servicing of oil burners of any size. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(o) Limited cooling contractor's license (D-3).

The holder of this license may perform only work limited to the installation, repair, replacement, maintenance or alteration of all refrigeration systems included in food storage, air conditioning or special process systems. The requirements to qualify for this license examination shall be two (2) years as a journeyperson or equivalent experience and training.

(p) Limited cooling journeyperson license (D-4).

The holder of this license may perform only work limited to the installation, repair, replacement, maintenance or alteration of all refrigeration systems included in food storage, air conditioning and special process systems and only while in the employ of a contractor licensed for such work. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(q) Limited heating, piping and cooling contractor's license (G-1).

The holder of this license may perform only that work for the installation, repair, replacement, alteration, and maintenance of gas piping systems and approved gas appliances, gas utilization equipment and accessories for use with LP gas supplied by gas containers and/or natural gas. The requirements to qualify for this license examination shall be two (2) years as a journeyperson or equivalent experience and training.

(r) Limited heating, piping and cooling journeyperson license (G-2).

The holder of this license may perform said work only while in the employ of a contractor licensed for such work. The holder of this license may perform only that work for the installation, repair, replacement, alteration, and maintenance of gas piping systems and approved gas appliances, gas utilization equipment and accessories for use with LP gas supplied by gas containers and/or natural gas. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(s) Limited welding contractor's license (G-9).

The holder of this license may perform only work limited to the welding process of all pipe and associated fittings and materials used by persons licensed pursuant to chapter 393 of the Connecticut General Statutes as long as such piping, associated fittings and materials are used by persons licensed to perform work as defined by section 20-330 of the Connecticut General Statutes. The requirements to qualify for this license examination shall be two (2) years as a journeyperson or equivalent experience and training and the presentation of a certification in pipe welding that is current within six months of the date

of application for this license.

(t) Limited welding journeyperson license (G-8).

The holder of this license may perform only work limited to the welding process of all pipe and associated fittings and materials used by persons licensed pursuant to chapter 393 of the Connecticut General Statutes, as long as such piping, associated fittings and materials are used by persons licensed to perform work as defined by section 20-330 of the Connecticut General Statutes and only while in the employ of a properly licensed contractor. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training and the presentation of a certification in pipe welding that is current within six months of the date of application for this license.

(u) Limited sheet metal contractor (SM-1).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of any duct work system, both ferrous and nonferrous for ductwork systems of any size and type, excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of these regulations. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson or equivalent experience and training.

(v) Limited sheet metal journeyperson (SM-2).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of any duct work system, both ferrous and nonferrous for ductwork systems of any size and type, excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of these regulations. The holder of this license may perform such work only while in the employ of a contractor licensed for such work. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(w) Limited sheet metal residential/light commercial contractor (SM-3).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of ductwork system, both ferrous and nonferrous for ductwork systems used within a light commercial or residential building. Light commercial and residential is a building with single air handling units not to exceed 35 tons of cooling, or fans or blowers not exceeding 14,000 cubic feet per minute (volume), excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of the regulations of Connecticut State agencies. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson or equivalent experience and training.

(x) Limited sheet metal residential/light commercial journeyperson (SM-4).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of ductwork system, both ferrous and nonferrous for ductwork systems used within a light commercial or residential building. Light commercial and residential is a building with single air handling units not to exceed 35 tons of cooling, or fans or blowers not exceeding 14,000 cubic feet per minute (volume), excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of the Regulations of Connecticut State Agencies. The holder of this license may perform

such work only while in the employ of a contractor licensed for such work. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(y) Limited sheet metal contractor hood systems (SM-5).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of ductwork system, both ferrous and nonferrous for hood ductwork systems of any size and type limited to and as it pertains to the proscribed code standards, excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of the regulations of Connecticut State Agencies. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson or equivalent experience and training.

(z) Limited sheet metal journeyperson hood systems (SM-6).

The holder of this license may perform only work limited to the installation, erection, replacement, repair or alteration of ductwork system, both ferrous and nonferrous for hood ductwork systems of any size and type, limited to and as it pertains to the proscribed code standards, excluding pneumatic conveyance systems which are covered under sections 20-332-5(a)(b)(c) and (d) of the regulations of Connecticut State Agencies. The holder of this license may perform such work only while in the employ of a contractor licensed for such work. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(aa) Sheet metal work.

Any person holding a license as defined within section 20-330(5) of the Connecticut General Statutes may perform "sheet metal work" as it pertains to the type of license that such person holds.

(bb) Limited heating cooling contractor's license (VT-1).

The holder of this license may perform only work limited to the inspection, maintenance, assembly or disassembly, repair (including machining or grinding) or replacement of all classes and types of valves. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson or equivalent experience and training.

(cc) Limited heating cooling journeyperson's license (VT-2).

The holder of this license may perform work only while in the employ of a properly licensed contractor and only work limited to the inspection, maintenance, assembly or disassembly, repair (including machining or grinding) or replacement of all classes and types of valves. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(dd) Limited heating cooling contractor's license (MT-1).

The holder of this license may perform only work limited to machining operations such as pipe prepping form tool and single point, pipe cut off and prepping, machine milling, (associated feed tables) flange facing, counter boring, CNC pipe prepping/machining, metal disintegrating machining, electrical discharge machining, machine boring and grinding, tapping and threading. The machining activities shall apply to all permanent plant equipment. This license only applies to work being performed at nuclear, fossil or petrochemical facilities. The requirements to qualify for this license exam shall be two (2) years as a properly licensed journeyman or equivalent experience and training.

(ee) Limited heating cooling journeyperson's license (MT-2).

The holder of this license may perform work only while in the employ of a properly licensed contractor and may only perform work limited to machining operations such as pipe prepping form tool and single point, pipe cut off and prepping, machine milling, (associated feed tables) flange facing, counter boring, CNC pipe prepping/machining, metal disintegrating machining, electrical discharge machining, machine boring and grinding, tapping and threading. The machining activities shall apply to all permanent plant equipment. This license only applies to work being performed at nuclear, fossil or petrochemical facilities. The requirements to qualify for this license exam shall be the completion of a bona fide apprenticeship program or equivalent experience and training.

(ff) Limited heating cooling contractor's license (HPG-1).

The holder of this license may only perform work limited to gas hearth product work, as defined in Connecticut General Statutes section 20-330. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson and the presentation of a certificate of completion from an approved hearth product certificate course from the National Fireplace Institute or equivalent.

(gg) Limited heating cooling journeyperson's license (HPG-2).

The holder of this license may perform work only while in the employ of a properly licensed contractor and may only perform work limited to gas hearth product work, as defined in Connecticut General Statutes section 20-330. The requirements to qualify for this license examination shall be the completion of at least five hundred (500) hours of on the job training, together with not less than twenty four hours of related instruction, or equivalent experience and training.

(hh) Solar thermal contractor (ST-1).

The holder of this license may perform only work on solar hot water heating systems. "Solar thermal work" means the installation, repair, replacement, alteration or maintenance of an active, passive or hybrid solar hot water heating system. The requirements to qualify for this license examination shall be two (2) years as a properly licensed journeyperson or equivalent experience and training.

(ii) Solar thermal limited journeyperson (ST-2).

The holder of this license may perform the following work, but only while in the employ of a contractor licensed for such work. The holder of this license may perform only work on solar hot water systems. "Solar thermal work" means the installation, repair, replacement, alteration or maintenance of an active, passive or hybrid solar hot water heating system. The requirements to qualify for this license examination shall be the completion of a registered apprenticeship program or equivalent experience and training.

(jj) Limited process piping contractor license (PP-1).

The holder of this license may perform only work limited to and used directly in the production of a product for human consumption. "Process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption. The requirements to qualify for this license exam shall be two (2) years as a properly licensed journeyman or equivalent experience and training as determined by the Department.

(kk) Limited process piping journeyperson license (PP-2).

The holder of this license may perform work only while in the employ of a properly licensed contractor and only work limited and used directly in the production of a product for human consumption. "Process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption. The requirements to qualify for this license exam shall be the completion of a bona fide apprenticeship program or equivalent experience and training as determined by the Department.

(II) Operating stationary engineer (OE-2).

The holder of this license may perform work only while in the employ of an actively licensed unlimited heating-cooling contractor for such work, or as an employee of a building owner for work on the premises owned or leased by such employer. The holder of this license may perform operation-related work by the manipulation, adjustment, control or monitoring of heating, air conditioning and refrigeration systems and boilers and incidental maintenance directly on or adjacent to operating equipment of such systems or boilers, upon demonstration of sufficient technical knowledge of such systems and boilers as determined by a passing score on an examination approved by the Commissioner of Consumer Protection in consultation with the board. The holder of this license may perform operation work on heating systems with a steam or water boiler maximum operating pressure greater than fifteen pounds per square inch gauge, or air conditioning and refrigeration systems with an aggregate of more than fifty horsepower or kilowatt equivalency of fifty horsepower or of two hundred pounds of refrigerant. This license does not permit a holder to replace or revise any existing piping of any system type. To qualify for this license an applicant shall complete an operating stationary engineer training program of not less than three (3) years, which training program shall be approved by the board, and perform twelve (12) months of documented work as an operating stationary engineer trainee in or related to physical power plants associated with buildings or manufacturing, or equivalent experience and training as determined by the Department in consultation with the board.

(Effective September 22, 1988; Amended February 11, 2003; Amended July 29, 2003; Amended September 7, 2007; Amended June 14, 2024)

Notes: Subsections (a), (b), (c) and (d) were inadvertently omitted from the version of this section printed in Supplement 75 to the Regulations of Connecticut State Agencies dated February 2004 and have been editorially restored. (July 5, 2016)